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**MAINE ELECTRIC POWER COMPANY
SUBSTATIONS SPILL PREVENTION
CONTROL AND COUNTERMEASURE PLAN
Chester and Orrington, Maine**

Prepared for:

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ATTACHMENTS

ATTACHMENT A	OIL AND HAZARDOUS MATERIAL SPILL REPORTING AND CLEANUP PROCEDURES
ATTACHMENT B	SECONDARY CONTAINMENT CALCULATIONS
ATTACHMENT C	40 CFR PARTS 110 AND 112
ATTACHMENT D	SUBSTATION INSPECTION CHECKLISTS
ATTACHMENT E	LOCATION MAPS
ATTACHMENT F	MEPCO CHESTER SVC AND ORRINGTON SUBSTATIONS OIL QUANTITIES AND CONTAINMENT CAPACITIES
ATTACHMENT G	SPCC PLAN ANNUAL REVIEW SHEET

1.0 INTRODUCTION

1.1 BACKGROUND

The Chester Static Variable Compensator (Chester SVC) Substation, located in Chester, Maine, is owned by Chester SVC Partnership, which is a joint venture of Bangor Hydro-Electric Company (Bangor Hydro) and Central Maine Power Company (CMP) and managed by Maine Electric Power Company (MEPCO). The Orrington Substation, located in Orrington, Maine, is owned by MEPCO, which is a joint venture of Bangor Hydro, CMP, and Maine Public Service Company. Bangor Hydro operates these substations and is responsible for oil spill prevention and response in the event of an emergency.

1.2 PLAN PURPOSE

Title 40 of the Code of Federal Regulations in Part 112.7 (40 CFR 112.7) requires that facilities with a potential to discharge oil to a navigable water and with either an aggregate aboveground oil storage capacity in excess of 1,320 gallons or one container of oil with a capacity of more than 660 gallons prepare a Spill Prevention, Control, and Countermeasures (SPCC) Plan. The purpose of an SPCC Plan is to minimize the potential for oil discharge into or upon the navigable waters of the United States and their adjoining shorelines. The definition of oil includes, but is not limited to, mineral oil dielectric fluid (MODF) used in oil-bearing electrical equipment, such as transformers, capacitors, regulators, and breakers. Discharge includes but is not limited to spilling, leaking, pumping, pouring, or emitting. Discharge does not include an oil discharge authorized under a current National Pollutant Discharge Elimination System (NPDES) permit.

Bangor Hydro operates the MEPCO substations located in Chester and Orrington, Maine. This Plan describes the activities conducted by Bangor Hydro to comply with SPCC requirements at the MEPCO substations. The Plan was prepared in accordance with 40 CFR 112.7, and is applicable to MEPCO's Chester SVC and Orrington Substations.

1.3 ENVIRONMENTAL POLICY

Bangor Hydro-Electric Company is committed to compliance with applicable environmental laws and regulations and public policies dealing with the responsible use and preservation of natural resources. Bangor Hydro has developed policies for the handling of hazardous and special wastes and the appropriate responses in the event of the release of injurious substances into the environment. It is every employee's responsibility to be aware of and sensitive to the ways in which our individual activities could impact the environment and to assist in ensuring the highest degree of environmental responsibility that we can reasonably attain.

1.4 SPILL PREVENTION POLICY

It is the policy of Bangor Hydro to conduct operations at the MEPCO substations in an environmentally safe and responsible manner. To achieve this, Bangor Hydro is committed to compliance with all applicable environmental laws and regulations. This policy is intended to be implemented by an active safety program, well-designed and maintained facilities, trained employees, and planning for emergency response.

The goal of this SPCC Plan is twofold. The first is to minimize the potential for an oil discharge. The second is to minimize the threat to the environment and human health in the event of a fire, explosion, or release of hazardous material. The Plan documents the combination of systems and procedures to be used to achieve these purposes. It is the responsibility of all affected employees to be familiar with this SPCC Plan, to use the safety systems described in it, and, in the event of an incident, to use the emergency response and notification procedures that it provides.

The "Oil and Hazardous Material Spill Reporting and Cleanup Procedures" in Attachment A of this plan are designed to ensure that spills of materials that may pose a threat to human health and the environment are properly reported to appropriate agencies and remediated, as required by law.

Signature: George Baker
George Baker
Manager of Engineering/Construction

Date: 1/12/01

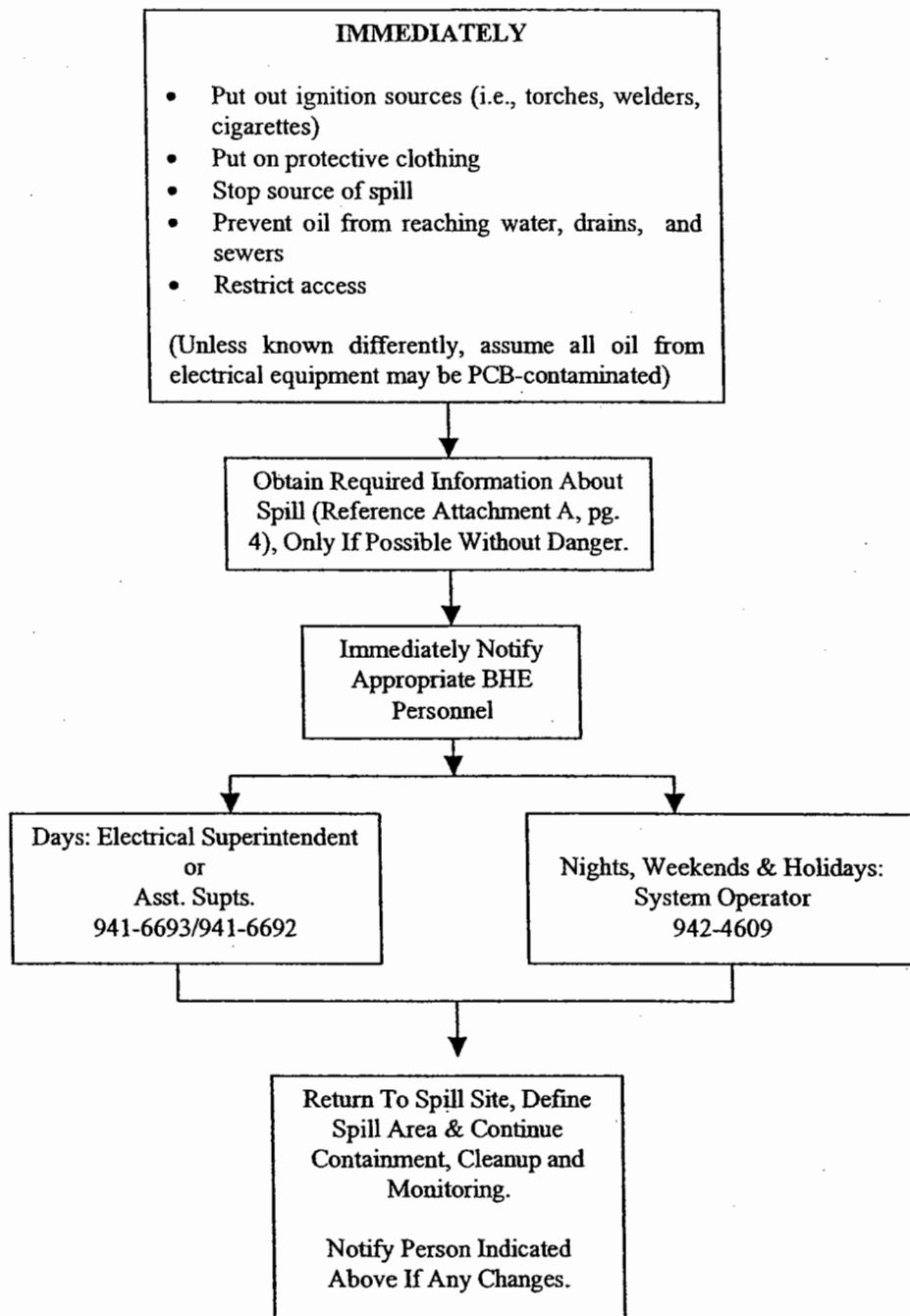
Signature: Rick Manning
Rick Manning
Electrical Operations & Maintenance Engineer

Date: 1/12/01

1.5 GENERAL RESPONSE PROCEDURES

Bangor Hydro's general spill response procedures are described in detail in the "Oil and Hazardous Material Spill Reporting and Cleanup Procedures" included as Attachment A. The reporting and cleanup procedures manual is updated annually. Regardless of the spill scenario, the general procedures presented in the flow chart in Figure 1 will be employed by Bangor Hydro personnel. For PCB information on substation equipment, contact the Electrical Department.

SPILL RESPONSE PROCEDURES FLOW CHART



See Attachment A for a complete copy of the
Oil and Hazardous Material Spill
Reporting and Cleanup Procedures Plan

FIGURE 1

1.6 PLAN ORGANIZATION

This SPCC Plan is divided into five sections, including this introduction, plus Attachments. The Introduction discusses the purpose of this Plan, company policy, general spill response procedures, and Plan distribution. Section 2 presents specific information for each Substation covered by this plan, including location, directions to the site, facility description, facility security, potential drainage pathways, spill prevention measures, spill history, and recommendations for improvements. Section 3 describes the spill prevention and response training Bangor Hydro employees receive, and the standard operating procedures for the substations. Descriptions of the inspection and record keeping procedures are in Section 4 and the Professional Engineer's certification of this Plan is in Section 5.

Attachments to this SPCC Plan include:

Attachment A - "Oil and Hazardous Material Spill Reporting and Cleanup Procedures";

Attachment B - Secondary Containment Calculations;

Attachment C - copies of 40 CFR Part 110 - Discharge of Oil, and 40 CFR Part 112 - Oil Pollution Prevention;

Attachment D - Substation Inspection Checklists;

Attachment E - Location Maps;

Attachment F - List of MEPCO Substations with total oil quantities, containment capacities, and equipment volumes requiring additional containment; and

Attachment G - SPCC Plan Annual Review Sheet.

1.7 PLAN DISTRIBUTION

Copies of the MEPCO Substations SPCC Plan are kept on file at the following agencies and companies:

Maine Department of Environmental Protection
Bureau of Remediation and Waste Management
Division of Response Services
106 Hogan Road
Bangor, Maine 04401

Mr. Stan Grover (MEPCO Representative)
Central Maine Power Company
83 Edison Drive
Augusta, Maine 04336

Copies of the MEPCO Substations SPCC Plan are kept on file at the following departments within Bangor Hydro-Electric Company:

- Electrical Department,
- Electrical Engineering Department, and
- Environmental Services and Compliance.

2.0 SUBSTATIONS

2.A Substation Site Information – CHESTER SVC

2.A.1 General Substation Site Information

Name and Location: Chester SVC Partnership
Bangor Hydro-Electric Company (operator)
Chester SVC Substation
Keene Road
Chester, Maine

The Chester SVC Substation was examined by Wade A. Narin van Court, P.E., a registered Professional Engineer in the State of Maine, on August 1, 2000. Certification of the SPCC Plan for this facility is in Section 5 of the Plan.

2.A.2 Directions to Substation Site (See Figure 1 in Attachment E)

From Bangor:

- Go North on Interstate 95 to Exit 55;
- At the end of the exit ramp turn right (East) toward Lincoln;
- Proceed approximately 2.2 miles to Route 116;
- Turn left (North) on Route 116;
- Proceed approximately 2.4 miles north on Route 116;
- Go past the Beaver Chester Power Plant;
- Turn left (North) on Keene Road (gravel road);
(Note: Bangor Hydro's Chester substation on Route 116 is north of Keene Road)
- Proceed approximately 0.5 miles to power lines;
- Turn right onto gravel access road at power line right-of-way;
- Proceed approximately 50 feet;
- Substation and access road are on right.

2.A.3 Facility Description

The Chester SVC Substation is shown in the attached drawings and photographs. A Control Building and Storage Building are located at the southern side of the facility. Substation electrical equipment is listed on Table 2.A (on page 10). Major oil-bearing equipment at this facility consists of four power transformers, four auxiliary transformers, 11 current and power (or voltage) transformers (CTs and PTs, respectively), and 1,656 thyristor switched and filter capacitors with 80 to 130 spares in the Control and Storage Buildings. The total quantity of oil in the equipment at the substation is approximately 40,120 gallons.

The Control Building and Storage Building have concrete slab-on-grade foundations. Power transformers are supported on a common concrete pad with the top of the pad approximately 4 inches above the ground surface. Concrete walls separate these transformers. Thyristor switched capacitors are mounted on steel racks in three banks with three racks per bank, as shown on the drawings. The capacitor racks are supported on concrete pads with the tops of the pads approximately 4 inches above ground level. The auxiliary Bangor Hydro station service transformer is also supported on a concrete pad with the top of the pad approximately 3 inches above the ground surface. Other electrical equipment is mounted above the ground surface on steel racks, which are supported by concrete piers.

The facility is supported on a sandy-gravel (bank run) fill base, which is drained by 6-inch diameter perforated pipes located approximately 4 feet below the ground surface, as shown on the attached drawing.

Perforated drainage pipes collect infiltrated runoff and direct it into the containment pond at the eastern side of the facility. The primary spillway from the pond is a 6-inch diameter galvanized steel pipe with the invert constructed approximately 10 inches above the bottom of the pond. This pond also has two secondary spillways that are drop-tubes with the inlets approximately 6.3 feet above the bottom of the pond. The drop-tube spillways have collars at the inlets that prevent floating oil from discharging. In addition, the containment pond has a concrete lined, trapezoidal channel emergency spillway.

2.A.4 Facility Security

Security at this substation is adequate to prevent unauthorized access. The substation is enclosed with a chain-link fence, at least 8 feet high, topped with three strands of barbed wire. Gates in the substation fence are kept closed and locked when operators are not present. The Control Building and Storage Building are equipped with a security system that has remote alarms to notify Bangor Hydro's system operator. Lighting at this substation appears to provide adequate illumination to observe potential leaks and deter vandalism.

2.A.5 Potential Discharge Pathways

The site is uniform and level. Precipitation at the facility generally infiltrates into the underlying fill where it is collected by the subdrain system and directed into the containment pond. Surface flows are also directed into the containment pond. Containment pond discharges flow into Medunkeunk Stream, located approximately 1,000 feet west of the substation. Medunkeunk Stream flows into the Penobscot River approximately one mile southeast of the facility.

2.A.6 Spill Containment and Control Measures

Interceptor ditches on the western and northern edges of the site separate onsite and offsite runoff and prevent flows from outside the facility area entering the substation.

Collected precipitation is directed toward the containment pond or allowed to dissipate by evaporation and infiltration. Perforated drainage pipes collect infiltrated runoff at the substation, as shown on the attached drawing, and discharge the flow into the containment pond.

Approximately 50 to 100 spare capacitors, with approximately 3 gallons of oil each, are stored in the Battery and Storage Rooms of the Control Building. These rooms have concrete floors and walls and no floor drains are present in the rooms. Adequate containment is provided to contain potential spills from one capacitor. In the Storage Room, larger spills would flow towards the door to the Battery Room. Larger spills in the Battery Room would flow towards the outside door and enter the facility containment system.

The concrete floor of the Storage Building provides minimal containment. Potential spills would flow toward the outside doors and enter the facility containment system.

A spill locker containing various spill containment supplies is located onsite. The locker is sealed and supplies are only used for emergencies. The spill locker is inspected quarterly. If the locker seal is observed to be broken during an inspection, then the contents of the locker are inventoried and replaced, as needed. An inventory list with supplies to be kept in the spill locker is in Attachment D.

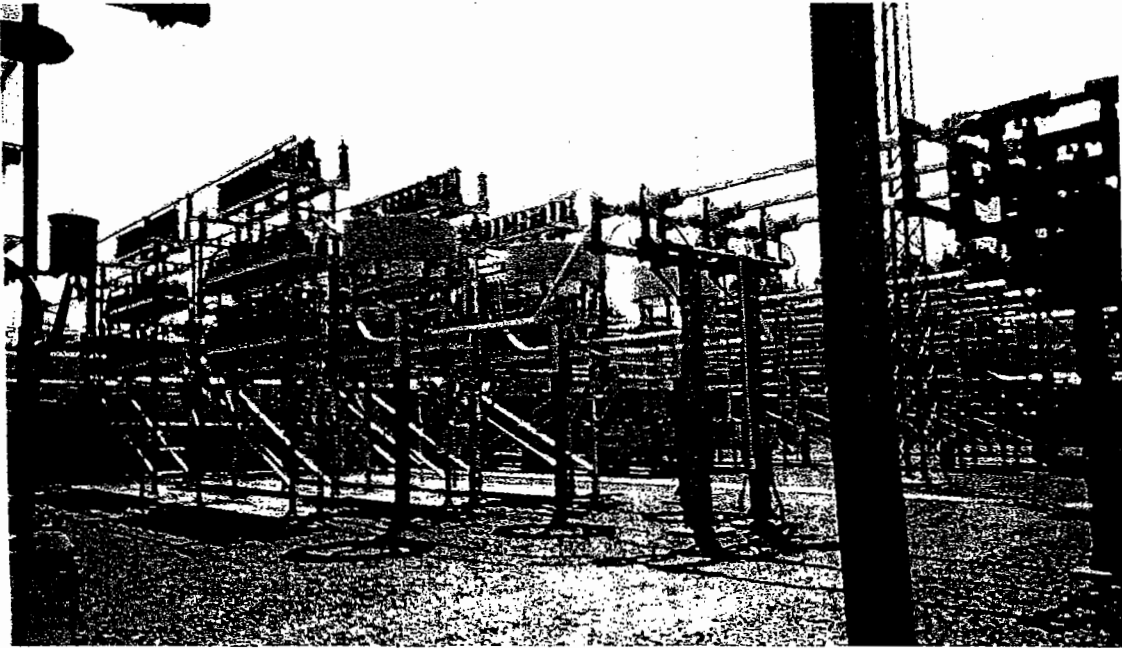
2.A.7 History of Spills

There have been no onsite oil or hazardous substance releases reported at this substation within the past year.

2.A.8 Recommendations for Improvements

- The primary spillways (one straight pipe discharge and two tube-and-riser discharges) should be modified to allow water to discharge and retain oil. The straight 6-inch diameter pipe discharge should be sealed. The tube-and-riser discharges should be modified by installing a 5-inch diameter orifice in the side of the tube at approximately elevation 225 feet and extending the risers down to approximately elevation 224.5 feet so floating oil will not enter the orifices. With these modifications, each tube-and-riser spillway will have a peak discharge rate of approximately 1 cubic foot per second and the pond capacity is adequate to contain the runoff from a 25-year, 24-hour precipitation event plus the oil volume of the largest piece of oil-bearing equipment. Construction of the spillway modifications should be completed by the end of the year 2001 construction season.
- Semi-annual inspections of the spill control and containment system(s) should be performed to assure adequate performance.

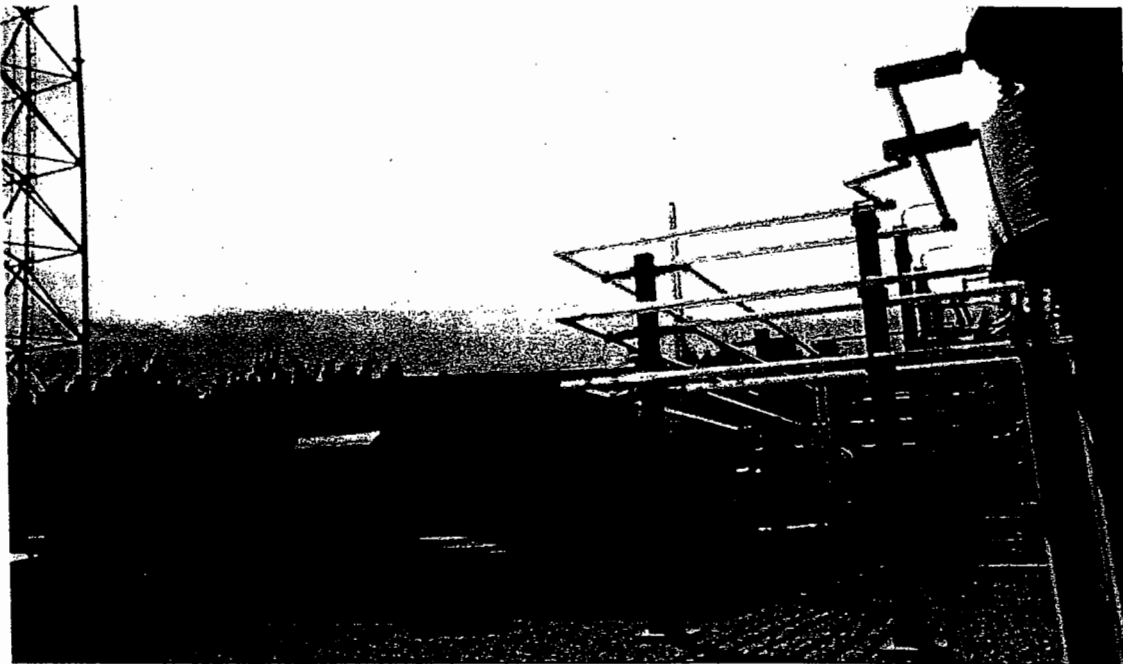
TABLE 2.A CHESTER SVC SUBSTATION ELECTRICAL EQUIPMENT			
DESCRIPTION	QUANTITY	OIL CAPACITY (GALLONS)	TOTAL OIL (GALLONS)
Power Transformer	4	8,082	32,328
Grounding Transformer	1	350	350
Station Service Transformer	1	150	150
Regulating Transformer	1	100	100
Padmount Auxiliary BHE Station Service	1	150	150
345 KV Power (Voltage) Transformer (PT)	3	130	390
345 KV Current Transformer (CT)	6	240	720
Thyristor Switched Capacitor	1,440	3.2	4,608
Filter Capacitors	216	2.6	564
345 KV CVT	6	10	60
Spare Capacitor (Main Building)	50-100	3.2	320
Spare Capacitor (Storage Building)	30	2.6	78
345 KV PT in Storage Building	1	130	130
345 KV CT in Storage Building	1	150	150
Misc. Petroleum Products	1	25	25
TOTAL			40,123



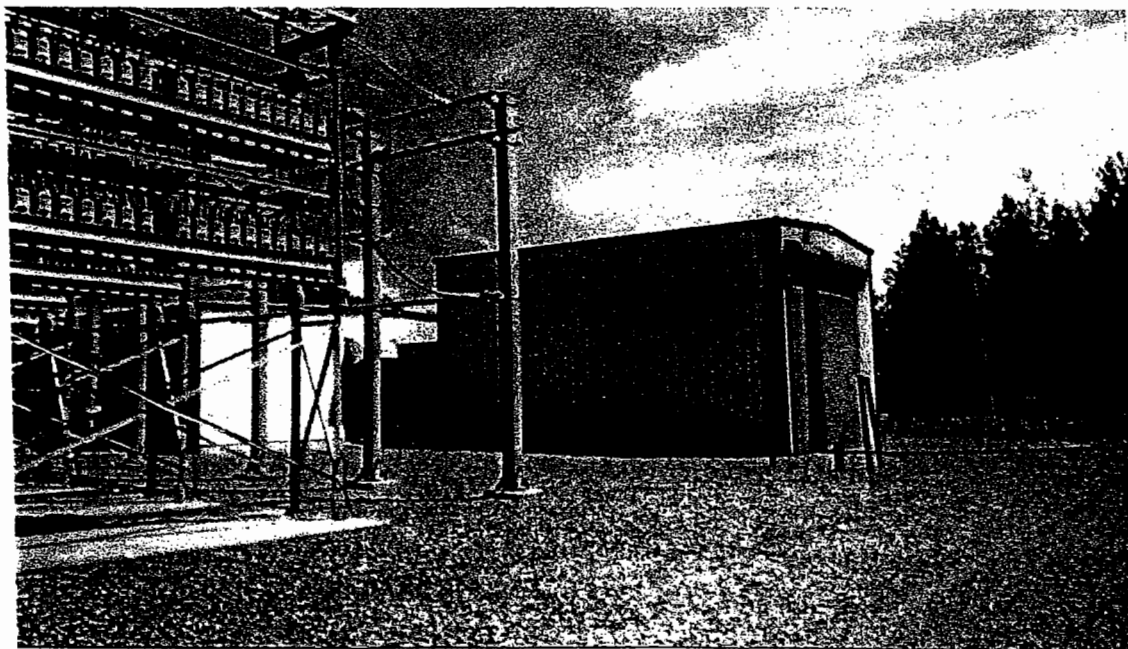
Chester Photograph 3: Capacitor Racks viewed from the northeast. Eastern Capacitors (TSC3, which includes three rows of capacitors racks) are shown at the left side, behind the Reactors. Control Building, Coolers, and other Capacitor Racks are in the background.



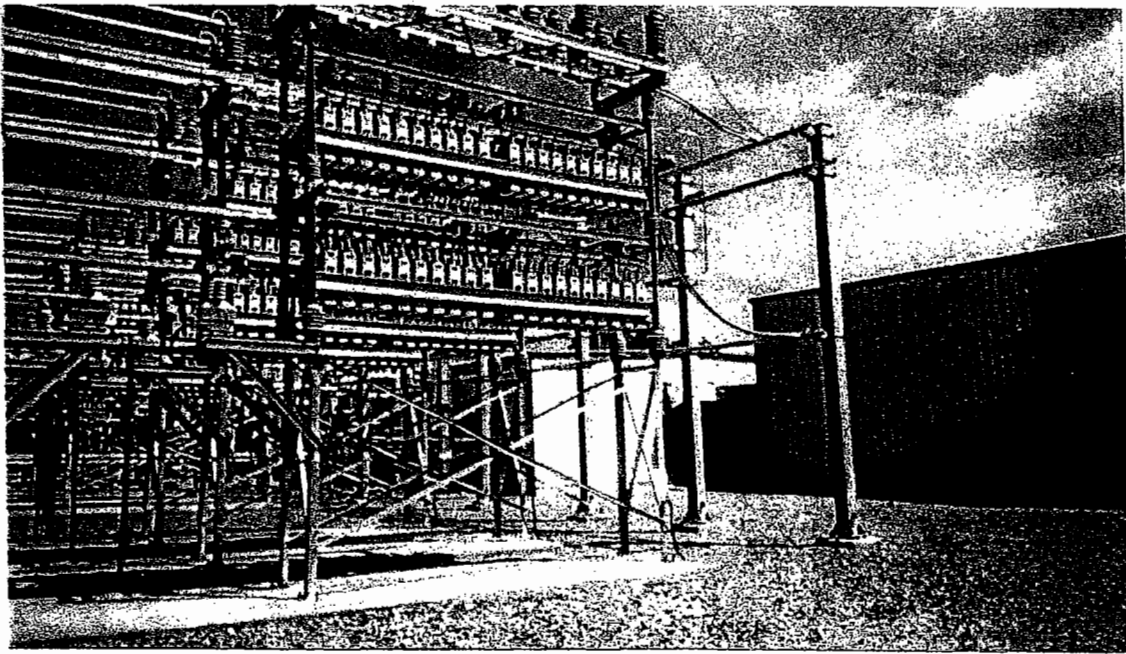
Chester Photograph 4: Containment Basin for the Chester SVC Substation viewed from the southwest. The tops of primary spillways and the emergency spillway are also shown.



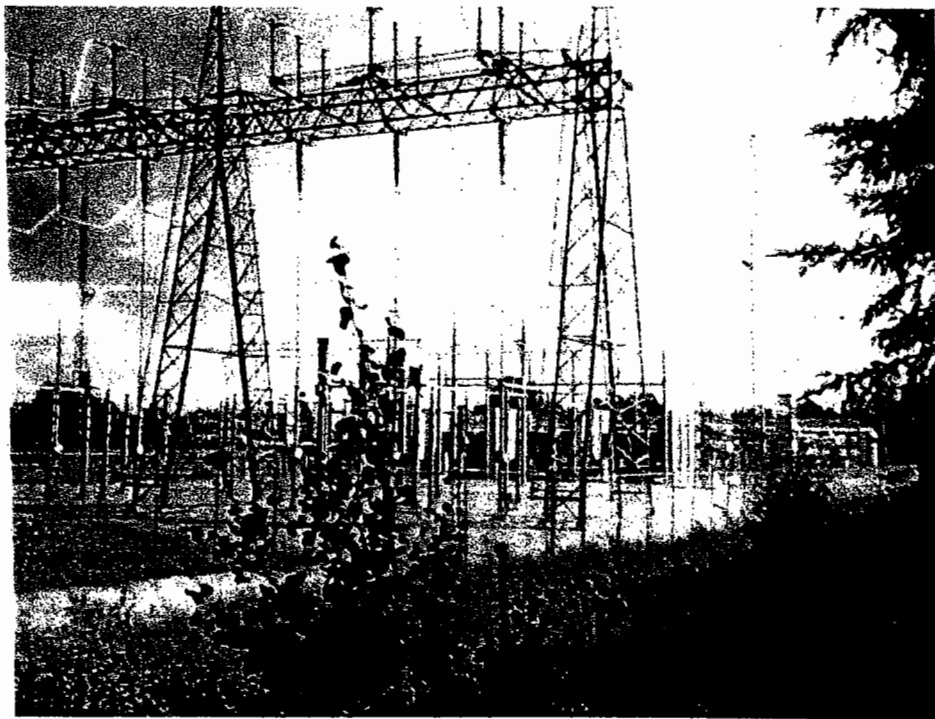
Chester Photograph 5: Control Building viewed from the northeast. The auxiliary transformer (for onsite power distribution) is shown in the foreground, and a metering pot is shown at the right side.



Chester Photograph 6: Storage Building viewed from the northwest. Southern portion of Capacitor Rack TSC1 is shown at the left side. Control Building is visible behind Storage Building and Capacitor Rack.



Chester Photograph 7: Capacitor Racks TSC1 viewed from the west. Control and Storage Buildings are shown in the background.



Chester Photograph 8: Substation viewed from outside the fence at the northwest.

2.B Substation Site Information – ORRINGTON

2.B.1 General Substation Site Information

Name and Location: Maine Electric Power Company
Bangor Hydro-Electric Company (operator)
Orrington Substation
Fields Pond Road
Orrington, Maine

The Orrington Substation was examined by Wade A. Narin van Court, P.E., a registered Professional Engineer in the State of Maine, on August 1, 2000. Certification of the SPCC Plan for this facility is in Section 5 of the Plan.

2.B.2 Directions to Substation Site (see Figure 2 in Attachment E)

From Bangor:

- Exit Interstate 95 (I-95) at Exit #45A (I-395 East);
- Proceed East on I-395 toward Brewer;
- Exit I-395 at Exit #4, Route 15 South (South Main Street, Brewer);
- Turn left (South) on Route 15;
- Proceed approximately 1.1 miles on Route 15;
- Turn left on Elm Street;
- Proceed approximately 0.2 miles on Elm Street;
- Turn right on Brewer Lake Road (Mill Street);
- Proceed 2.5 miles on Brewer Lake Road;
- Turn left on Fields Pond Road;
- Proceed 0.6 miles on Fields Pond Road;
- Substation and access road are on left.

2.B.3 Facility Description

The Orrington Substation is shown in the attached drawings and photographs. The facility is an electrical substation for 115 kV and 345 kV transmission lines. A 13.8 kV internal Reactor Control System is incorporated for voltage regulation of the 345 kV transmission line. The substation area is terraced, descending from west to east, with an approximately 8- to 9-foot elevation change between terraces, as shown in the attached drawing. The western terrace is the 115 kV Yard and the eastern terrace is the 345 kV Yard.

A Control Building and Maintenance/Storage Building are located at the facility. Major oil-bearing equipment at this facility consists of two transformers, nine circuit breakers, three 345kV metering pots, and 225 capacitors with nine to ten spares in the Maintenance/Storage Building. The total quantity of oil in the equipment at the

substation is approximately 98,060 gallons. Substation electrical equipment is listed on Table 2.B (on page 14).

The Control Building and Maintenance/Storage Building are located on the middle terrace of the facility. The Control Building has a full basement and the Maintenance/Storage Building has a concrete slab-on-grade foundation. No oil is stored in the Control Building or the northern side (Cold Storage) of the Maintenance/Storage Building. Spare oil-filled capacitors, an oil-filled drum with spare parts, and compressor oil are stored in the southern side of the Maintenance/Storage Building.

Transformers are located on the middle terrace and supported on concrete pads with the top of the pads approximately 4 inches above the ground surface. Capacitors are mounted several feet above the ground surface on steel racks located at the northern end of the middle terrace. Breakers located on the western terrace are mounted on concrete pads with the tops of the pads approximately 4 inches above the ground surface. Breakers located on the middle terrace are mounted approximately 2 feet above the ground surface on concrete blocks. Other oil-bearing equipment is mounted above the ground surface on steel racks, which are supported by concrete piers.

The facility is supported on a sandy-gravel (bank run) fill base. The fill is drained by 6-inch diameter perforated pipes located approximately 2 to 5 feet below the ground surface, as shown on the attached drawing. In addition, the cable trenches are underlain by 6-inch diameter perforated pipes. Perforated drainage pipes collect infiltrated runoff and direct it to the sides of the facility. One drainage pipe discharges to the western side of the facility and six pipes discharge to the eastern side.

Surface runoff in the southern portion of the middle terrace may flow into catch basins. Two catch basins are located west of the Control Building and one catch basin is located between the Control Building and the middle terrace entrance gate. Runoff collected in the catch basins flows into a 12-inch diameter culvert that discharges at the southeast corner of the middle terrace, as shown on the attached drawings.

2.B.4 Facility Security

Security at this substation is adequate to prevent unauthorized access. The substation is enclosed with a chain-link fence, at least 6 feet high, topped with three strands of barbed wire. Gates in the substation fence are kept closed and locked when operators are not present. The Control Building is equipped with a security system that has remote alarms to notify Bangor Hydro's system operator. Lighting at this substation appears to provide adequate illumination to observe potential leaks and deter vandalism.

2.B.5 Potential Discharge Pathways

Precipitation at the facility generally infiltrates into the underlying fill where it is collected by the subdrain system and excess precipitation leaves the site as surface runoff. At the western terrace, infiltrated water in the western portion and surface runoff from the

western and southern portions flow into ditches adjacent to the western and southern edges of the terrace, and then in to a bog located southwest of the substation, as shown in the drawings. Infiltrated water and surface runoff from the remainder of the western terrace and the middle and eastern terraces flow into ditches adjacent to the northern and southern edges of the substation, which direct the runoff into a bog east of the facility, or flow directly into the bog at the eastern side of the facility. Discharge from the southwest bog flows through a culvert under Fields Pond Road and flows to Sedgeunkedunk Stream, located approximately half a mile south of the substation. Discharge from the east bog flows through a culvert under Fields Pond Road and to Fields Pond, which is located approximately half a mile southeast of the substation. Water from Fields Pond empties into Sedgeunkedunk Stream, flows approximately 4 miles, and discharges into to enter the Penobscot River.

2.B.6 Spill Containment and Control Measures

The substation base is elevated above the surrounding ground level and ditches on the southern, western, and northern edges of the site separate onsite and offsite runoff and prevent flows from outside the facility area entering the substation. The surfaces of the terraces are graded level to promote infiltration and minimize surface runoff, which will prevent the spread of a potential spill.

Transformers on the Middle Terrace are equipped with low oil level alarms, which notify Bangor Hydro's system operator when activated. In the event that the low level alarm is activated, the system operator shall notify Bangor Hydro personnel to respond to the site.

The concrete floor of the Storage Building provides minimal containment. Potential spills would flow toward the outside doors and enter the facility containment system.

A spill locker containing various spill containment supplies is located onsite. The locker is sealed and supplies are only used for emergencies. The spill locker is inspected quarterly. If the locker seal is observed to be broken during an inspection, then the contents of the locker are inventoried and replaced, as needed. An inventory list with supplies to be kept in the spill locker is in Attachment D.

2.B.7 History of Spills

There have been no onsite oil or hazardous substance releases reported at this substation within the past year.

2.B.8 Recommendations for Improvements

- The onsite spill response locker should include at least four plugs or end caps to seal the perforated drainage pipes in the event of a spill. Employees should be trained that in the event of a spill, ends of drainage pipes are plugged to prevent oil discharges into adjacent wetlands and plugs are not removed until adequate control of discharges is established. To allow these pipes to be sealed quickly,

ends should be clearly marked and kept free of excessive vegetation. This recommendation should be addressed by June 1, 2001.

- Oil and oil-filled equipment in the Storage Building should be stored in a containment area or on a containment pallet. This recommendation should be addressed by June 1, 2001.
- A containment basin should be constructed at the discharge from the onsite catch basin system. Bangor Hydro should consider locating the containment basin at the southern side of the substation on either side of the access road. The spillway for this containment basin should be equipped with a coarse oil/water separator, similar to the design recommended for the Chester SVC substation containment basin. Construction of this containment basin should be completed by the end of the year 2001 construction season.
- A containment basin should be constructed at the northeast corner of the site to collect runoff from the northern portions of the middle and eastern terraces. The spillway for this containment basin should be equipped with a coarse oil/water separator, similar to the design recommended for the Chester SVC substation containment basin. Construction of this containment basin should be completed by the end of the year 2001 construction season.
- The western terrace should be bermed to direct surface runoff toward the recommended containment basins. This modification of the facility would provide adequate containment for potential spills from the breakers. Construction of this containment basin should be completed by the end of the year 2001 construction season.
- Semi-annual inspections of the spill control and containment system(s) should be performed to assure adequate performance.

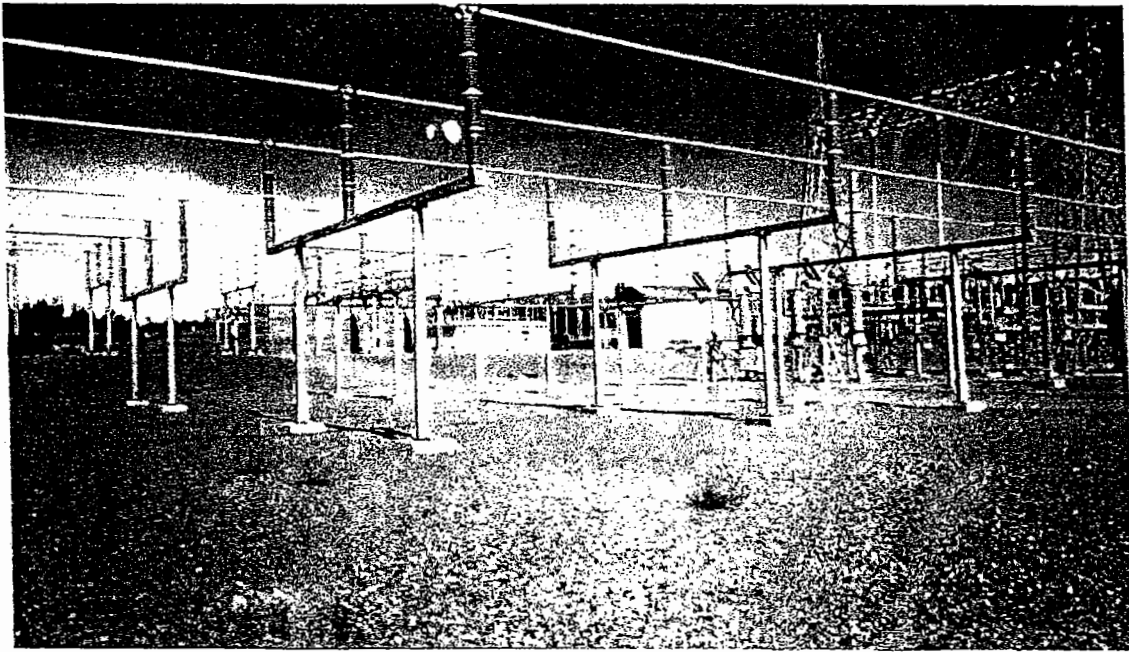
TABLE 2.B ORRINGTON SUBSTATION ELECTRICAL EQUIPMENT			
DESCRIPTION	QUANTITY	OIL CAPACITY (GALLONS)	TOTAL OIL (GALLONS)
Transformers	2	33,400	66,800
Station Service Transformer	1	150 (est.)	150
Circuit Breakers	7	3,435	24,045
Circuit Breaker (spare)	1	3,435	3,435
Circuit Breaker	1	2,370	2,370
Capacitors	225	2.86	644
Capacitors (spare)	10	2.86	29
345 kV Metering Pots	3	240	720
Misc. Equipment and oil storage	1	20	20
TOTAL			98,213



Orrington Photograph 1: Maintenance/Storage Building and sound barrier for Transformer T1 viewed from the south. Both of these structures are on the Middle Terrace.



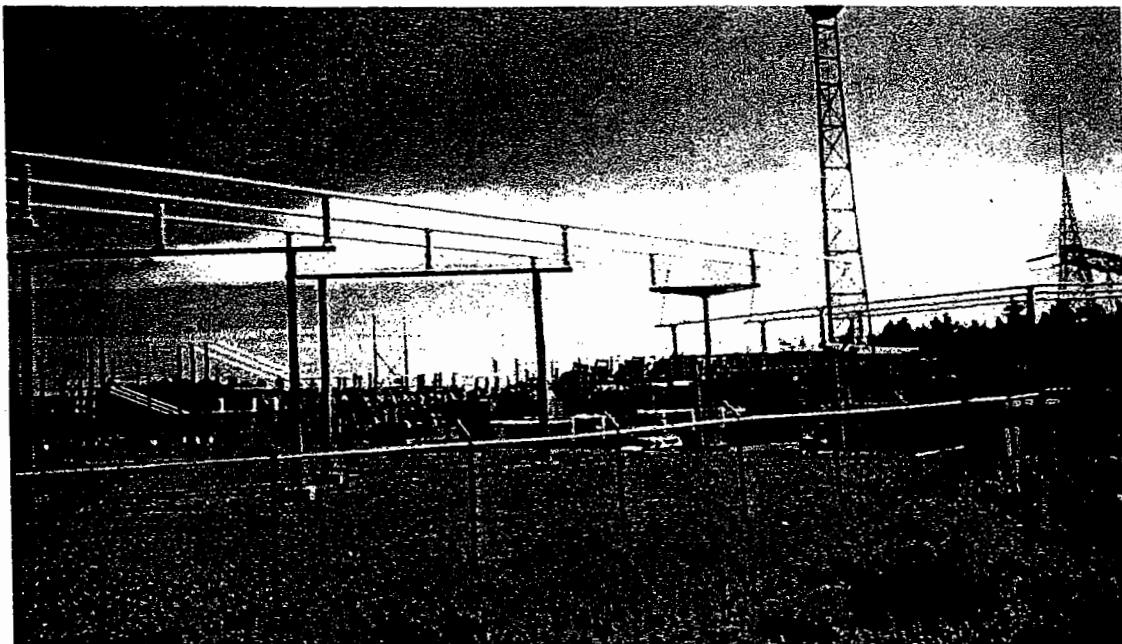
Orrington Photograph 2: The 345 kV Yard (Eastern Terrace) viewed from the southeast. The metering pots are shown at the right side; Control Building and Maintenance/Storage Building are shown in the background at the left.



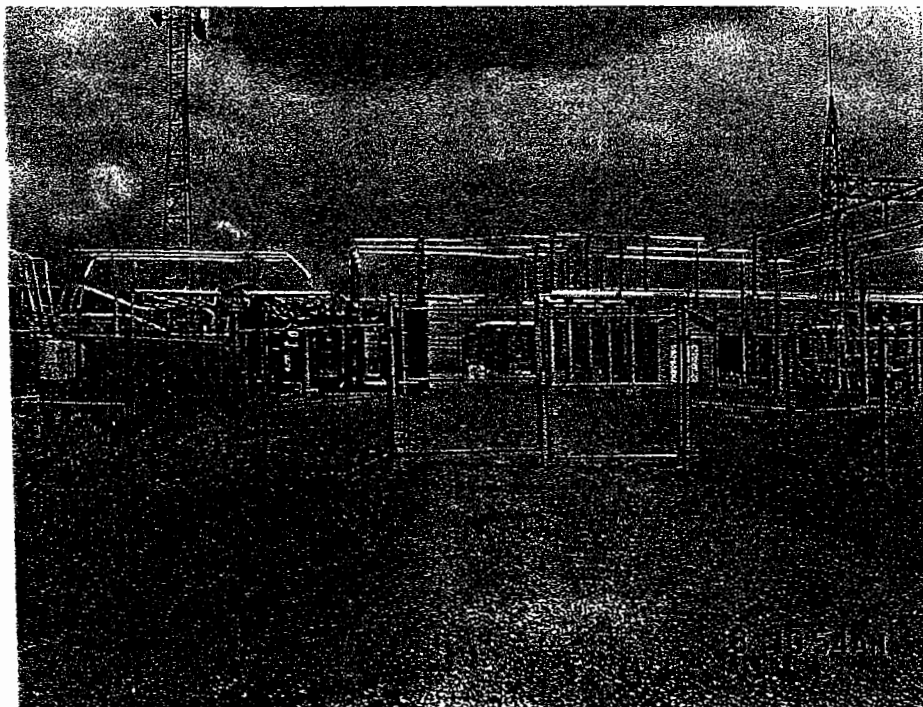
Orrington Photograph 3: Southern portion of the 345 kV Yard viewed from the southeast. Control Building, Maintenance/Storage Building, and sound barrier for Transformer T1 shown in the background.



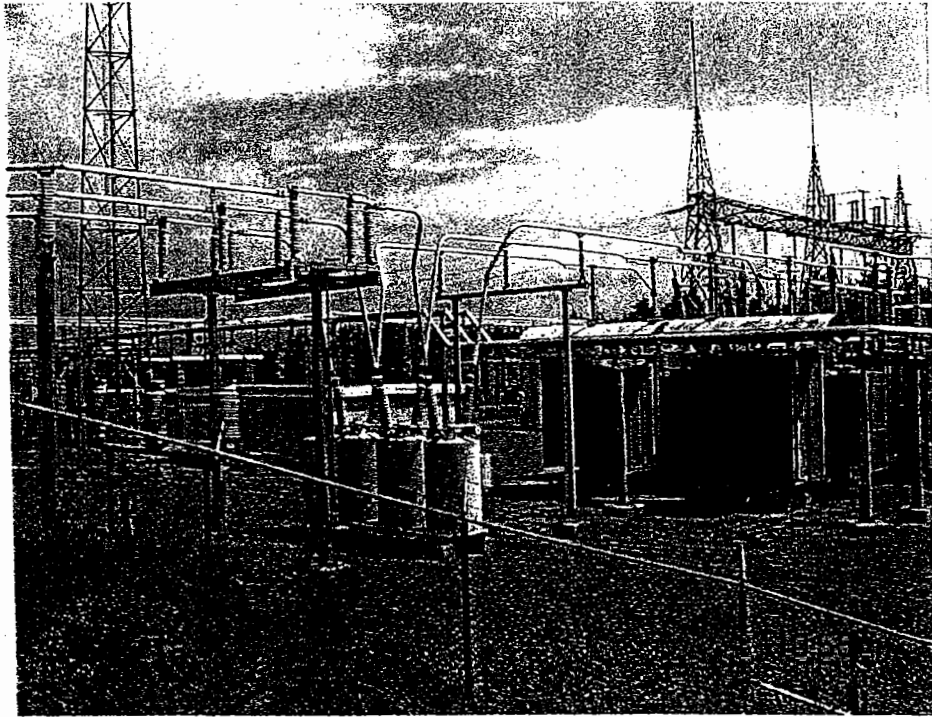
Orrington Photograph 4: Middle Terrace viewed from the southwest. Shown from left to right are: Capacitor Rack, Transformer T1 and breakers, Control Building, Maintenance/Storage Building, and Transformer T2 and breakers. Transformer T1 is in area enclosed by the red fence.



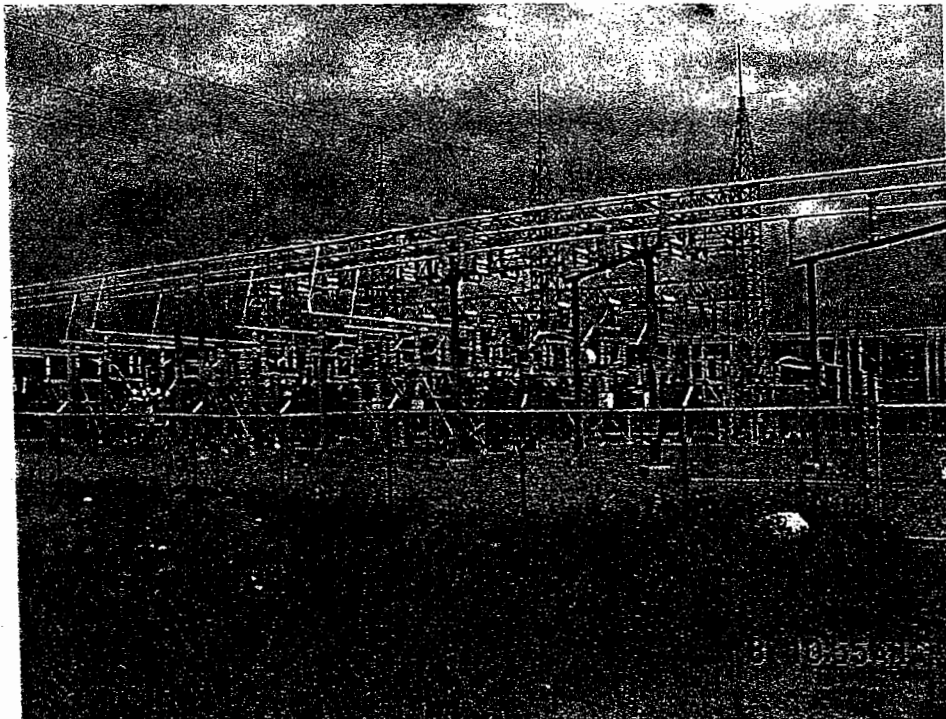
Orrington Photograph 5: Middle Terrace viewed from the southwest. Shown from left to right are: Capacitor Rack, Transformer T1 and breakers, Control Building, and Maintenance/Storage Building. Transformer T1 is in area enclosed by the red fence.



Orrington Photograph 6: Maintenance/Storage building and the Middle Terrace viewed from the south. Transformer T2 and breakers are on the left, in front of the Control Building.



Orrington Photograph 7: Control Building and Middle Terrace viewed from the southwest. Transformer T2 and breakers are in the foreground.



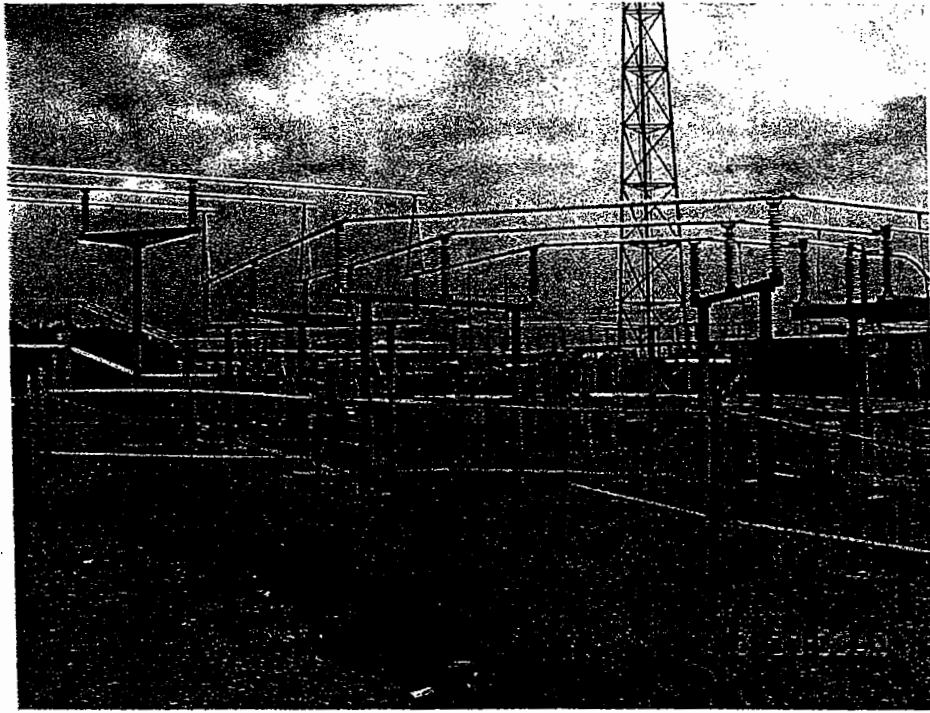
Orrington Photograph 8: The 115kV Yard (Western Terrace) showing the breakers and support structures viewed from the southeast.



Orrington Photograph 9: The 345 kV Yard (Eastern Terrace) showing the metering pots viewed from the south.



Orrington Photograph 10: The 345 kV Yard (Eastern Terrace) showing the entire Yard viewed from the south. Maintenance/Storage Building (on the Middle Terrace) is shown at the left.



Orrington Photograph 11: Transformer T1, capacitors, and other electrical equipment on the Middle Terrace viewed from the southwest. Control Building is shown at the right side.

3.0 TRAINING AND STANDARD OPERATING PROCEDURES

3.1 TRAINING

Bangor Hydro's operations supervisors receive twenty-four (24) hours of OSHA emergency response training (29CFR1910.120), as well as six (6) hours of OSHA Hazard Communication Training (29CFR1910.1200). The 24-hour OSHA emergency response training covers hazards of materials and personal protective equipment used at Bangor Hydro; procedures that are outlined in Bangor Hydro's "Oil and Hazardous Material Spill Reporting and Cleanup Procedures;" spill site control and decontamination procedures; and tabletop and practical exercises. The OSHA Hazard Communication training covers use of material safety data sheets and personal protection equipment. The operations supervisors are responsible for reporting oil spill incidents and coordinating cleanup efforts during regular business hours. In addition, one supervisor is always on call during off hours and would be called upon to coordinate cleanup efforts in the event of a significant release.

All operations personnel receive an initial six (6) hours of OSHA Hazard Communication Training (29CFR1910.1200) covering use of material safety data sheets and personal protective equipment. In addition, all operations personnel receive eight (8) hours of training that satisfies the requirements for handling spills (29CFR1910.1200 and 29CFR1910.120). This training covers the hazards of materials and personal protective equipment used at Bangor Hydro; procedures that are outlined in Bangor Hydro's "Oil and Hazardous Material Spill Reporting and Cleanup Procedures;" spill site control and decontamination procedures; and tabletop and practical exercises.

In addition, all supervisors and operations personnel receive annual training related to Bangor Hydro's PCB Management Program, hazardous waste management, and standard operating procedures for oil spill prevention.

Training records for Bangor Hydro supervisors and operations personnel are maintained in the environmental training files.

3.2 STANDARD OPERATING PROCEDURES

All operations personnel have been instructed in the following spill prevention operating procedures:

1. During maintenance operations involving the transfer of oil, personnel are present to continuously monitor the operation.
2. When conducting any maintenance activities involving the transfer of oil, absorbent pads are on hand and drip pans are in place. Oil drips are promptly cleaned up with absorbent materials.
3. Containers of oil or oil-based products are generally stored inside containment in the Storage Building, unless the building (or storage room) has no floor drains and provides adequate containment.
4. Oil-contaminated material from the cleanup of a spill is collected into drums or large plastic bags provided in spill kits. Oil-contaminated debris is stored in a secure area, typically at the Graham Station facility, until it is picked up for disposal.
5. Ensure that each vehicle conducting maintenance or inspections at substations is equipped with a spill control kit. This will ensure that spill control equipment is readily available if the driver must respond to a spill.
6. Maintain a spill trailer at the Graham Station facility that contains the spill response items as indicated in Attachment A, page 46, of this plan. This spill trailer should be readily available to respond to all spills at any substation.
7. In the event of a release, see Section 1.5 Spill Response Procedures Flowchart for a quick reference or Bangor Hydro's "Oil and Hazardous Material Spill Reporting and Cleanup Procedures" found in Attachment A of this plan for detailed procedures.
8. Keep all valves used for drainage of water within a containment area locked except when draining the area. If a containment area needs to be drained, the following steps must be taken by a responsible individual: 1) inspect for any film or sheen upon or discoloration of the surface of the water or any deposits beneath the surface of the water before opening the valve, 2) clean up any oil with absorbent materials or by other means, if appropriate, 3) open and close the valve, and 4) make a notation on the Substation Weekly Inspection Form of the inspection of the water before drainage and the times the drainage valve was opened and closed.
9. Monitor the oil levels in larger pieces of equipment and record this information on the Substation Weekly Inspection Form.

10. Personnel inspect oil-bearing equipment for leaks, corrosion, cracks, bad seals, discoloration, or other signs of distress before using.
11. Whenever equipment is undergoing major maintenance, verify that any alarm systems in place related to oil levels in larger pieces of equipment are functioning properly.
12. Conduct quarterly inspections of the spill locker. If the locker seal is observed to be broken during an inspection, then the contents of the locker are inventoried and replaced, as needed. The Spill Locker Quarterly Inspection Form (in Attachment D) shall be signed and placed in the back of the original MEPCO Substation SPCC Plan, located at the Graham Station Facility.
13. The designated individual accountable for oil spill prevention is required to review this plan and ensure "oil spill preparedness" on an annual basis. The designated individual receives a "sign-off" sheet, which must be signed and placed in the back of the original MEPCO Substations SPCC Plan located at the Graham Station facility after review.
14. Qualified operators for the MEPCO Substations are required to review this SPCC Plan on an annual basis. They will receive a "sign-off" sheet, which must be signed and placed in the back of the original MEPCO Substations SPCC Plan located at the Graham Station facility after review.
15. Weekly visual inspections are conducted by MEPCO operators of oil-containing equipment and spill containment measures at the substations. Personnel observe oil-bearing equipment, containment measures, lighting, and fencing and note whether obvious leaks and/or damage are apparent or not. Weekly inspections are recorded on the Weekly Substation Inspection Forms (Attachment D). Deficiencies are noted and corrected. These inspection forms are located with the original MEPCO Substations SPCC Plan at the Graham Station facility. Inspection records shall be kept for a minimum of three years.
16. Detailed visual inspections are conducted semi-annually by Electrical Department personnel of all oil-containing equipment and spill containment measures at the substations using the appropriate "Substation SPCC Checklist" in Attachment D. Any deficiencies are noted and corrected. The "Substation SPCC Checklist" is signed and dated and placed with the original MEPCO Substations SPCC Plan located at the Graham Station facility after the inspection. These inspection forms are maintained at the Graham Station facility for a minimum of three years.

4.0 INSPECTIONS AND REVIEWS

4.1 DESIGNATED ACCOUNTABLE PERSON AND EMERGENCY COORDINATOR

The designated accountable person responsible for oil spill prevention and implementing the SPCC Plan is Gerry Chasse, System Electrical Superintendent. Bangor Hydro's designated accountable person is required to review this Plan and assure "oil spill preparedness" annually. Record of the annual review is kept with the Plan. Duties of the designated accountable person also include reviewing and maintaining inspection records for each Substation.

Control and cleanup of MEPCO substation oil spills is the responsibility of the Electrical Department Emergency Coordinator (EC) for the MEPCO Substations. The primary EC is Gerry Chasse. Alternate ECs for the MEPCO Substations are listed under the Electrical Department in the personnel section of Attachment A.

Telephone numbers for the designated accountable person, EC, and Alternate ECs are in the "Oil and Hazardous Material Spill Reporting and Cleanup Procedures" manual in Attachment A.

The EC is the central authority for emergency response procedures during an incident. Should an incident occur, the EC will establish a command post at the scene of the incident or other appropriate location. The EC will direct appropriate Bangor Hydro personnel and outside support as necessary to respond to the incident, and will yield authority to the Fire Chief, as appropriate. The EC has the authority to commit the necessary resources to adequately respond to incidents that may occur to protect human health and the environment.

4.2 INSPECTIONS

Weekly visual inspections are conducted by Electrical Department personnel of oil-containing equipment and spill containment measures at the substations. Personnel observe oil-bearing equipment, containment measures, lighting, and fencing and note whether obvious leaks and/or damage are apparent, and prioritize actions and/or repairs that may be required. Weekly

inspections are recorded on the Weekly Substation Inspection Forms. Deficiencies are noted and corrected. These inspection forms are located with the original MEPCO Substations SPCC Plan at the Graham Station facility. Inspection records shall be kept for a minimum of three years.

Detailed visual inspections are conducted semi-annually by Electrical Department personnel of all oil-containing equipment and spill containment measures at the substations using the appropriate "Substation SPCC Checklist" in Attachment D. Deficiencies are noted and actions and/or repairs that may be required are prioritized. The "Substation SPCC Checklist" is signed and dated and placed with the original MEPCO Substations SPCC Plan located at the Graham Station facility after the inspection. These inspection forms are maintained at the Graham Station facility for a minimum of three years.

4.3 RECORD KEEPING

Records or clear photocopies of originals regarding each substation covered by this SPCC Plan shall be kept at the Graham Station facility, under the supervision of the designated accountable person for oil spill prevention. Substation records shall be maintained for as long as the specific facility is in operation or for three years after the facility is no longer required to have an SPCC Plan. Records that are kept include:

- A copy of the current SPCC Plan;
- Copies of documentation that shows when the SPCC Plan was reviewed and the outcome of each review; and
- Copies of weekly and semi-annual inspection logs.

The following records are kept at the corporate office in Bangor, Maine:

- Copies of telephone records documenting a notification to the U.S. Environmental Protection Agency (EPA) National Response Center and State of Maine Department of Environmental Protection (DEP) and other agencies as required by a spill (maintained on file as long as the facility is subject to the regulation);

- List of personnel that received initial assignment training on pertinent aspects of the SPCC Plan and their responsibilities and duties, including date of training and instructor's name;
- List of personnel that received review/refreshers training including the date of the training and instructor's name; and
- Copies of Bangor Hydro Spill Report Forms.

4.4 SPCC PLAN AMENDMENTS AND REVIEWS

The SPCC Plan will be amended whenever there is a change in the design, operation, or maintenance of the facility that affects the potential for a discharge to occur. Any amendments will be implemented within six months after the change at the facility. In addition, the SPCC Plan will be reviewed at least every three years from the date the facility first became subject to 40 CFR 112. If this review indicates that additional field-proven and effective prevention measures are necessary, these measures will be implemented and the SPCC Plan will be so amended within six months of the review. Following any technical amendments (i.e., non-administrative changes), the revised SPCC Plan will be certified by a Professional Engineer.

The Plan will also be updated to reflect minor changes that do not significantly affect the potential for a discharge to occur, such as a change in telephone numbers. These updates will not be certified by a Professional Engineer, but will be distributed to all recipients of the plan.

The SPCC Plan will also be amended if there are two discharges of oil in harmful amounts (40 CFR 110) to the navigable waters of the United States within a 12-month period or if such a discharge involves over 1,000 gallons of oil. The regulations allow that the EPA Regional Administrator will review the SPCC Plan and may require amendments to be made. Within 60 days of the event triggering the review, Bangor Hydro will submit to the EPA Regional Administrator and the Maine DEP the following information:

- Name and location of the Substation ;
- Name(s) of the owner or operator;

- Date and year of initial facility operation;
- Maximum oil storage capacity;
- Description of the Substation including topographical maps and other drawings;
- Complete copy of the SPCC Plan;
- Cause of the spill(s) including a failure analysis;
- Corrective actions and/or countermeasures taken;
- Additional preventive measures taken or contemplated to prevent a recurrence;
- Amendment made to the Plan to avoid the recurrence of discharges of oil; and
- Other information that may be reasonably required to review the Plan or the incidents.

After reviewing the above information and any comments received from the Maine DEP, the EPA Regional Administrator may notify the facility of any proposed amendments to the SPCC Plan necessary to prevent or contain future discharges. Bangor Hydro will respond to the proposed amendment within 30 days from receipt of the proposal. The EPA Regional Administrator will either rescind the proposal or require the amendment be made. The amendment will become effective 30 days after issue and must be implemented within six months. Any required amendment may be appealed to the Administrator of the EPA.

5.0 PROFESSIONAL ENGINEER'S CERTIFICATION

I certify that this Spill Prevention, Control and Countermeasures (SPCC) Plan dated January 12, 2001 has been prepared in accordance with good engineering practices. After visiting the Chester SVC and Orrington Substations and reviewing this SPCC Plan, I find that this Plan accurately describes these facilities and conforms to the provisions of 40 CFR 112.7. This certification is no longer valid when any change takes place at the substations that may have an effect on the potential for a discharge or when the regulations imposing SPCC Plan requirements change or after the deadline to review the continued applicability of this SPCC Plan has passed. It is understood that Bangor Hydro-Electric Company also certifies that the descriptions of existing facilities, practices, procedures, etc., are accurately described in the SPCC Plan.

Signature: _____

Wade A. Narin van Court

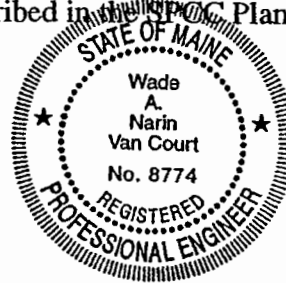
Engineer: Wade A. Narin van Court, P.E.

License No.: 8774

State: Maine

Date: _____

January 12, 2001



Seal

ATTACHMENT A
OIL AND HAZARDOUS MATERIAL SPILL
REPORTING AND CLEANUP PROCEDURES

OIL AND HAZARDOUS MATERIAL

SPILL REPORTING

AND

CLEANUP PROCEDURES

Bangor Hydro-Electric Company

Twelfth Revision - August 2004

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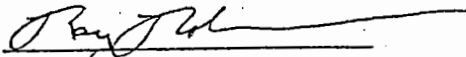
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I. COMPANY POLICY

Bangor Hydro is committed to compliance with all applicable environmental laws, regulations, and Company and public policies dealing with the responsible use and preservation of our natural resources. The Company has developed policies for the handling of hazardous and special substances, and the appropriate responses in the event of the release of injurious substances into the environment. It is the responsibility of every employee and contractor to be aware of and sensitive to the ways in which our individual activities could impact the environment and to assist in ensuring the highest degree of environmental responsibility that we can reasonably attain.

In delivering on this commitment, Bangor Hydro, an Emera Company:

- ❖ considers the prevention of pollution its first option, in preference to control or cleanup, where economical, feasible, practical, and achievable;
- ❖ makes the environment an integral part of decision making, as it pursues both environmental performance and value to shareholders;
- ❖ works with government in the development of technically sound and financially responsible environmental laws and regulations;
- ❖ verifies and uses appropriate opportunities to continually improve its environmental performance, management systems, and contingency plans;
- ❖ works to provide services to customers in a manner that utilizes resources efficiently;
- ❖ provides appropriate environmental training and education to employees, and
- ❖ communicates with all stakeholders on environmental performance in an open manner.


Ray Robinson
Chief Operating Officer

July 25, 2002
Date

II. INTRODUCTION AND OVERVIEW

Bangor Hydro is required by state and federal law to report spills of oil or other hazardous materials released into the environment to certain government agencies. Depending on the size and nature of the release, Bangor Hydro is required to notify various agencies within specified time frames.

The purpose of establishing these reporting procedures is to ensure that Bangor Hydro notifies the appropriate environmental, safety, or health agencies of a routine leak or spill or in the event of a serious community emergency. These procedures, therefore, will be an integral part of Bangor Hydro's various spill prevention, control, and countermeasure plans and hazardous waste contingency plans.

It is the responsibility of each Bangor Hydro supervisor and each system operator to be familiar with these requirements and procedures and to abide by them in the event of a spill or release of oil or hazardous material. In addition, it is the responsibility of each Bangor Hydro supervisor to ensure that employees within their department properly report and cleanup spills in accordance with these procedures. Failure to implement these procedures may subject any Bangor Hydro employee to disciplinary action.

State law for failure to report and clean up spills carries civil and criminal penalties of up to \$27,500 per day for each civil and/or criminal violation. In addition, federal law also carries civil and criminal penalties of up to \$27,500 per day for each civil and/or criminal violation. Initial telephone reporting to the appropriate agencies can alleviate potential civil and criminal liabilities. Thus, reporting is a critical first step to complying with oil or hazardous material spill response and cleanup requirements.

III. DEFINITIONS

- A. **Oil:** Oil means oil of any kind and in any form, including, but not limited to, dielectric fluid, petroleum, fuel oil, sludge, oil refuse, oil mixed with other wastes, and crude oils.
- B. **Oil Spill:** The term "oil spill" includes, but is not limited to, any spilling, leaking, pumping, pouring, emitting, disposing, emptying, or dumping onto the land or into the water or ambient air.
- C. **PCB and PCBs:** Any chemical substance that deliberately or unintentionally contains polychlorinated biphenyls at a concentration of 50 ppm or greater. PCBs are suspected of causing cancer in humans and are a stable environmental toxic contaminant.
- D. **Low-Concentration PCBs:** Oil or fluid tested and found to contain less than 500 ppm PCBs, or those PCB-containing materials which EPA requires to be assumed to be at concentration below 500 ppm (i.e., untested mineral oil dielectric fluid).
- E. **High-Concentration PCBs:** Oil or fluid tested and found to contain 500 ppm or greater PCBs, or those materials which EPA requires to be assumed to be at concentrations above 500 ppm (i.e., dielectric fluid that is not known to be mineral oil and may, therefore, be pure askarel, or a capacitor that is not specifically marked non-PCB) or materials containing more than 1 pound of PCBs.
- F. **Non-PCB:** Items containing less than 50 ppm PCBs.
- G. **TYPE 1 Incident:** A minor spill or leak that can be controlled by personnel on-site or with immediately accessible resources.
- H. **TYPE 2 Incident:** An event in which oil is spilled into storm drains, surface waters, drinking water supplies, grazing lands or gardens; an incident involving a major fire or explosion; an incident involving major public involvement in which Bangor Hydro personnel on the scene request additional resources; or an incident involving more than 270 gallons of oil or a material with greater than 50 ppm PCBs.
- I. **Navigable Water:** Any waters of the United States that are: 1) currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, 2) interstate waters, 3) intrastate waters [lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, and drainage conveyances discharging to navigable water] the use degradation, or destruction of which would affect or could affect interstate or foreign commerce.

IV. INTERNAL SPILL REPORTING

A. Verbal Notification

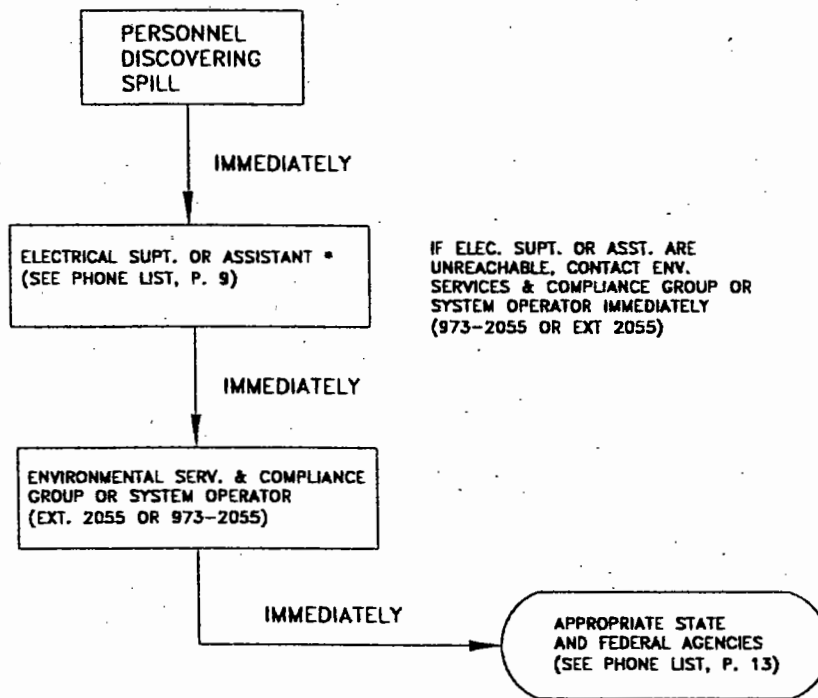
Any Bangor Hydro employee discovering an oil or hazardous material spill must report the spill in accordance with the following notification diagrams (see pp. 5-7). Verbal notifications should be made as soon as possible, but within two hours, after the spill has been discovered. Verbal internal spill reporting procedures differ slightly from department to department; therefore, separate notification diagrams are presented for the various operating areas of Bangor Hydro. Verbal reporting procedures will also vary depending on whether a spill occurs during normal working hours or during off hours, weekends, and holidays. In the case of a Type 2 incident during off hours, weekends, and holidays, the System Operator should notify the on-call supervisor and the on-call Environmental/Facilities Maintenance staff person immediately. The on-call supervisor will be responsible for incident supervision and coordination of the cleanup efforts. For a list of contractors to assist in cleanup, see p. 15.

A verbal report about a spill event should include the following information:

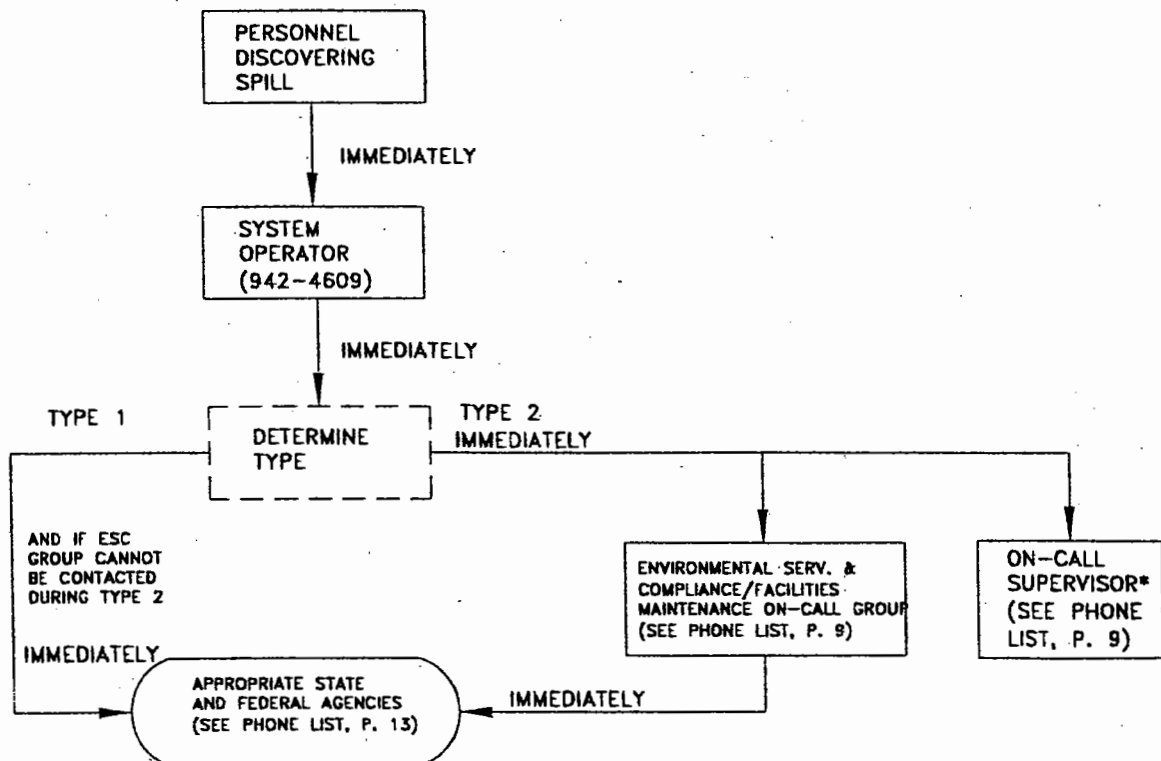
1. Name of person reporting spill
2. Time spill was discovered
3. Date spill was discovered
4. Location of spill
5. Size and description of spill area
6. Estimated amount of material
7. Type of material
8. Nameplate Information (PCB data, serial no., manufacturer, size)
9. Type of incident (i.e., fire, explosion, spill, leak)
10. Pathway of spill (i.e., soil, lake, stream, drinking water)
11. Cause of the spill/leak
12. Injuries or potential threats to human health or the environment
13. Weather conditions
14. Whether additional resources such as fire, police, Bangor Hydro supervisor, or hazmat crews are needed
15. A number where they can be reached
16. Initial response actions taken

ELECTRICAL DEPARTMENT

DAYTIME WORKING HOURS



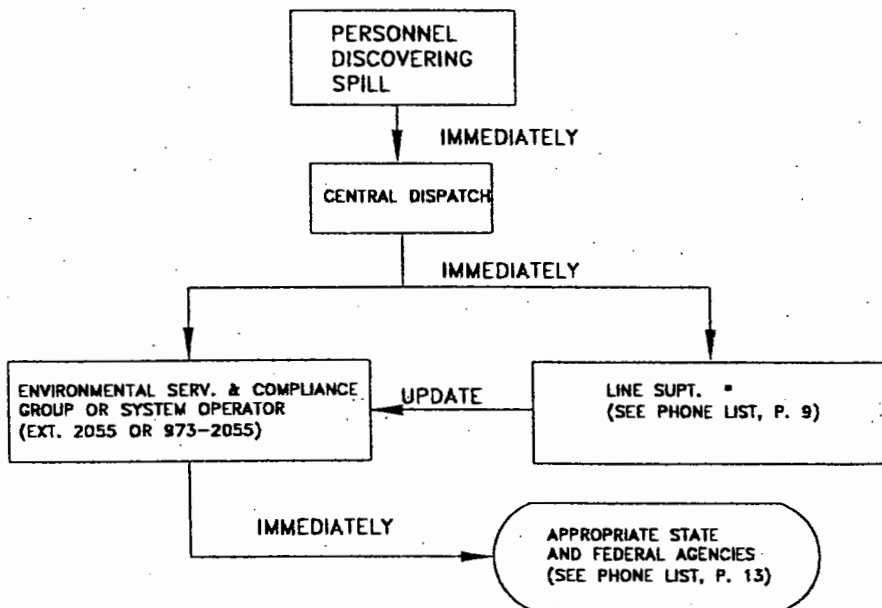
OFF HOURS, WEEKENDS & HOLIDAYS



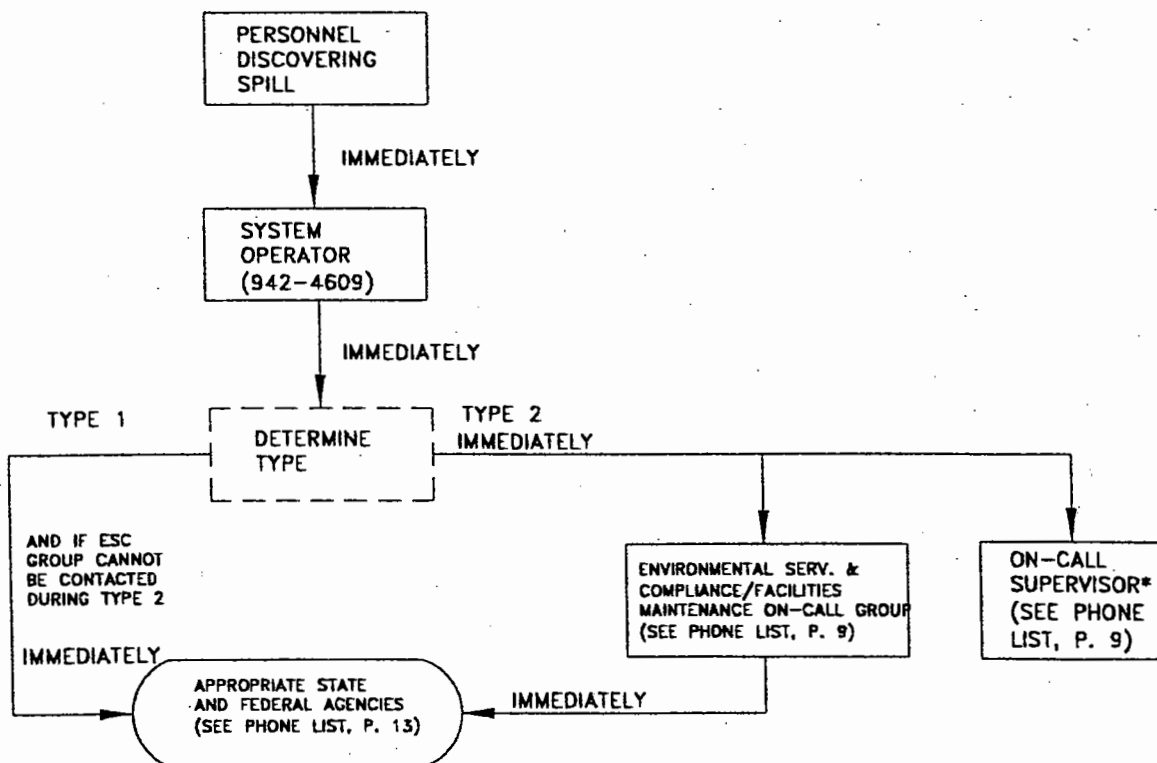
* ELECTRICAL SUPT. OR ASSISTANT RESPONSIBLE FOR COMPLETING "FIELD SPILL ACTIONS AND CLEANUP REPORT"

BANGOR, MACHIAS, LINCOLN AND LAMOINE LINE/METER DEPARTMENTS & TRAVELING LINE DEPARTMENT

DAYTIME WORKING HOURS



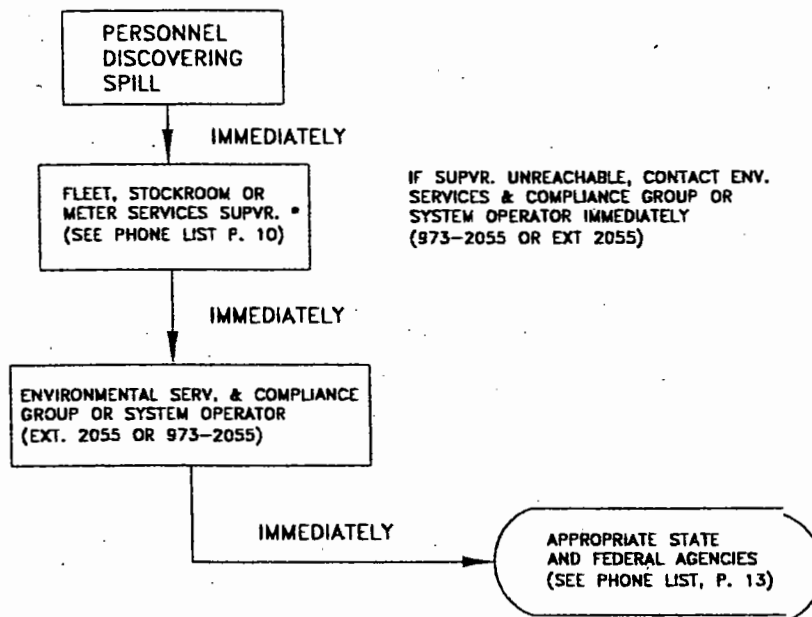
OFF HOURS, WEEKENDS &
HOLIDAYS



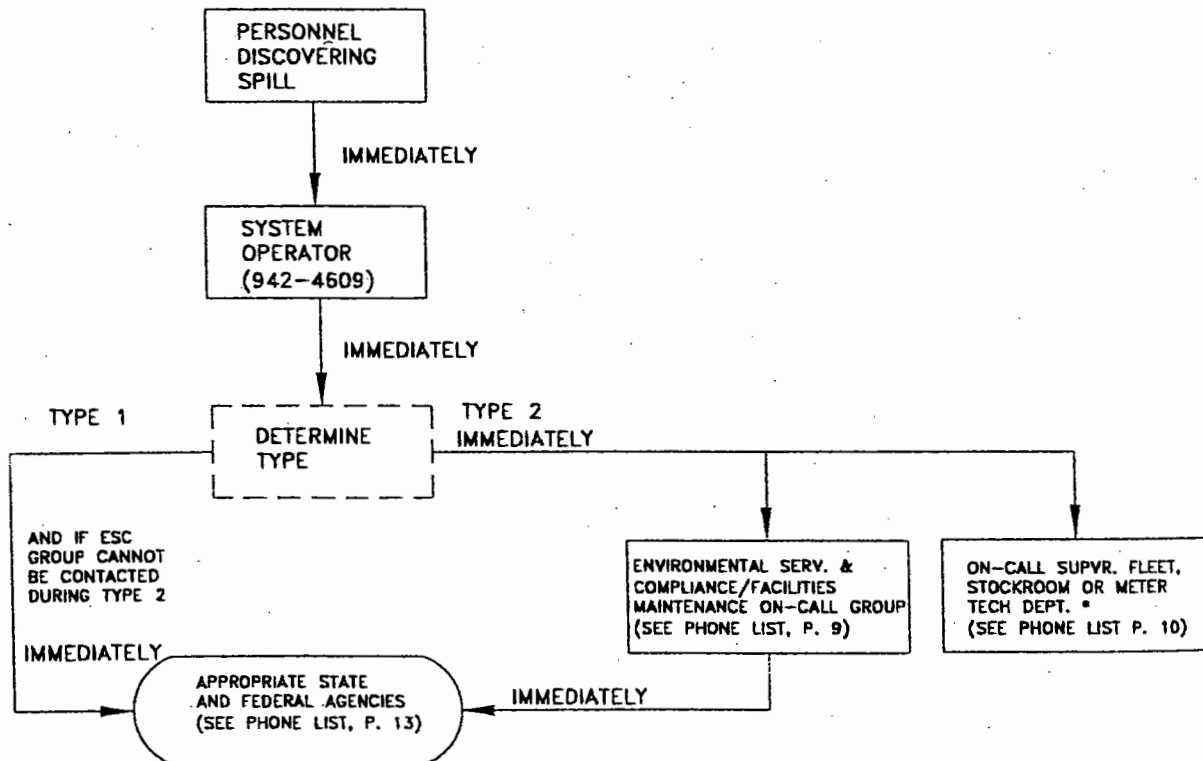
* LINE SUPT. OR DESIGNEE RESPONSIBLE FOR
COMPLETING "FIELD SPILL ACTIONS AND CLEANUP REPORT"

MAIN STREET FACILITY (FLEET, STOCKROOM & METER TECH DEPT.)

DAYTIME WORKING HOURS



OFF HOURS, WEEKENDS & HOLIDAYS



NOTIFY FLEET SUPVR. FOR INCIDENTS INVOLVING:

LEAKS FROM FUEL OR OIL STORAGE TANKS

LEAKS FROM VEHICLES

LEAKS FROM DRUMS OF OIL OR DEGREASING SOLVENTS FOR VEHICLE MAINTENANCE

NOTIFY STOCKROOM SUPVR. FOR INCIDENTS INVOLVING:

LEAKS FROM ANY ELECTRICAL EQUIPMENT

LEAKS FROM CONTAINERS IN THE STOCKROOM

NOTIFY METER SERVICES SUPVR. FOR INCIDENTS INVOLVING:

LEAKS FROM METER TECH DEPT. OPERATIONS

* RESPONSIBLE FOR COMPLETING "FIELD SPILL ACTIONS AND CLEANUP REPORT"

B. Written Documentation

Spill Information Collection Form - When verbal notification of a spill is made to either the Environmental Services and Compliance Group or the System Operator's office, the spill information is recorded on the Bangor Hydro "Spill Information Collection Form," Form 26-441 (Appendix A). If the System Operator's office receives the notification, the Spill Information Collection Form must be completed, in its entirety, and sent to the Environmental Services and Compliance Group within 24 hours. Blank forms are available from the Forms room at 33 State Street.

Field Spill Actions and Cleanup Report - The supervisor/designee responsible for spill cleanup is required to complete a written report known as the Bangor Hydro "Field Spill Actions and Cleanup Report," Form 26-440 (Appendix A – available on intranet). (If a Type I spill occurs during off hours and the supervisor is not notified, the employee responsible for spill cleanup should notify the supervisor on the next business day.) The form must be completed, in its entirety, by the responsible supervisor/designee and then be sent to the Environmental Services and Compliance Group within 48 hours. Blank forms are available from the Forms room at 33 State Street.

TELEPHONE INDEX
FOR OIL AND HAZARDOUS MATERIAL SPILL NOTIFICATION
BANGOR HYDRO-ELECTRIC COMPANY EMERGENCY COORDINATORS

ENVIRONMENTAL SERVICES & COMPLIANCE GROUP (During off hours, System Operator will contact on-call Environmental Staff)

Dean Butler Building Maint. Supvr. Ext. 2672, DID 973-2672 (After Hrs.: 862-2634) 440 Monroe Road Hampden, ME 04444	Eric Clapp Facilities Coordinator Ext. 2586, DID 973-2586 (After Hrs.: 989-2929) 989-7650 388 Riverside Drive Eddington, ME 04428	John Gabarra Property Manager Ext. 2530, DID 973-2530 (After Hrs.: 825-3042) 6 Cardinal Drive Orrington, ME 04474	Mona Spear Environmental Compliance Specialist Ext. 2542, DID 973-2542 (After Hrs.: 843-6744) 378 South Road Holden, ME 04429
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SYSTEM OPERATOR - 942-4609 or 1-800-281-4609, 942-4416

OPERATIONS PERSONNEL

(During off hours, please check with System Operator (942-4609) to contact on-call supervisor.)

Mike Baine Services Planner Ext. 3829 or 255-4286 (After Hrs.: 853-4365)	Mark Lagasse Data QC Specialist Ext. 2636, DID 973-2636 (After Hrs.: 942-3985)	Bob Platt Mgr. Operations Processes Ext. 2608, DID 973-2608 (After Hrs.: 989-3568 348-6872)	Brent Sutherland Electrical Operations Tech Ext. 3217 or 941-6692 (After Hrs.: 862-3390) 7 Wessnette Dr. Hampden, ME 04444
Kevin Black Asst. Superintendent Ext. 3219 or 941-6616 (After Hrs.: 223-2563) 6 Blueberry Hill Rd., Winterport, ME 04496	Mark Lamberton Line Clearance Specialist Ext. 2582, DID 973-2582 (After Hrs.: 234-2943)	Scott Richards Line Supervisor Ext. 3732 or 667-9246 (After Hrs.: 667-2619)	Bruce Wasson Line Supervisor Ext. 2781, DID 973-2781 (After Hrs.: 827-3427)
Terry Coffin Field Technician Ext. 3724 or 667-9246 (After Hrs.: 422-3109)	Robert Look Line Supervisor Ext. 3807 or 255-4286 (After Hrs.: 483-4585) Camp: 638-3020	Scott Richardson Field Technician Ext. 2656 or 973-2656 (After Hrs.: 827-8622)	
Ed Cookson Supvr. Construc. Services Ext. 2791, DID 973-2791 (After Hrs.: 884-2118)	Dan McCarthy Asst. Electrical Supt. Ext. 3214, DID 941-6697 (After Hrs.: 862-2143) 39 Mayo Road Hampden, ME 04444	Bruce Smith T & D Field Technician Ext. 2507, DID 973-2507 (After Hrs.: 223-4498)	
Bob Fairweather Service Planner Ext. 3719 or 667-9246 (After Hrs.: 469-2295) Camp: 326-9529	Don Ouellette Field Technician Ext. 2697, DID 973-2697 (After Hrs.: 862-6031)	Gary Stanley Lead Field Technician Ext. 3729 or 667-9246 (After Hrs.: 667-5056) Camp: 667-7677	
Brian Gray Supvr. Construc. Planning Ext. 2514, DID 973-2514 (After Hrs.: 469-6124)	Bob Peasley Field Technician Ext. 2518, DID 973-2518 (After Hrs.: 537-3141)	Steven Stuart Services Planner Ext. 3831 or 255-4286 (After Hrs.: 255-4435)	
Don King Constr/Service Planner Ext. 2696, DID 973-2696 (After Hrs.: 862-2730)	Dave Perkins Field Technician Ext. 3180, DID 794-3960 (After Hrs.: 843-0667)		

TELEPHONE INDEX
FOR OIL AND HAZARDOUS MATERIAL SPILL NOTIFICATION
BANGOR HYDRO-ELECTRIC COMPANY EMERGENCY COORDINATORS

METER TECH

Steve Monroe
Manager of Meter Operations
Ext. 2713, DID 973-2713
(After Hrs.: 866-2227)

STOCKROOM

Joe Coffin
Storekeeper
Ext. 2714, DID 973-2714
(After Hrs.: 825-3596)

GARAGE

Jack Mcleod
Fleet Supervisor
Ext. 2717, DID 973-2717
(After Hrs.: 564-8452)

Please Note: Cell phone and pager numbers can be located on the Bangor Hydro-Electric Company Phone List in Appendix E at the end of this plan. This list should be reprinted periodically as numbers change.

V. **SPILL REPORTING TO STATE & FEDERAL GOVERNMENT AGENCIES**

Bangor Hydro's compliance with state and federal spill reporting requirements shall be the responsibility of the Environmental Services and Compliance Group or the System Operator, depending on the time of day the spill is discovered. The Environmental Services and Compliance Group or System Operator will begin making verbal notifications to all applicable state and federal agencies within two hours of discovery of the spill.

A. Verbal Notification

1. Normal Working Hours

During normal working hours, the Environmental Services and Compliance Group will have primary responsibility for verbally reporting oil or hazardous material spills to the appropriate state and federal agencies as directed by the Discharge Notification Chart (p. 12). In the event that someone from the Environmental Services and Compliance Group is unable to be reached, the System Operator will be notified of the spill and will contact the appropriate parties.

2. Off-Hours

The verbal reporting of oil or hazardous material spills which are discovered after normal working hours shall be the responsibility of the System Operator. The System Operator will document information about the spill using the "Spill Information Collection Form" and make the necessary verbal notifications based on the Discharge Notification Chart (p. 12). If the System Operator receives the initial call for a spill and it is a Type 2 incident, he may first attempt to reach the Environmental Services and Compliance Group/Facilities Maintenance On-call personnel to make the verbal notifications. However, if they are not immediately available, the System Operator must make the verbal reports.

B. Written Notification

All written reports to agencies shall be the responsibility of the Environmental Services and Compliance Group. Bangor Hydro uses the information collected on the internal spill forms (included in Appendix A) in preparing all reports necessary to comply with applicable regulations.

DISCHARGE NOTIFICATION CHART

AGENCY TO BE CONTACTED

(T = Telephone Notification W = Written Notification)

DESCRIPTION OF DISCHARGE	NRC T W	MDEP T W	USEPA T W	USCG T W	MSP T W	SERC T W	LEPC T W	LFD T W	LEGAL CITATION
1. OIL SPILLS (see definitions,p.3)									
• discharges in any amount and under any circumstances		X X							ME Regs CH. 600 4.B
• discharge which causes a sheen upon the surface of the water or adjoining shore line or oily sludge deposits beneath the surface of the water	X	X X	IW*	CW*					40 CFR 110.6
• two or more discharges into navigable waters ¹ of the U.S. from one facility within any 12-month period	X	X X	IW* X	CW*					40 CFR 112.4
• discharges of more than 1,000 gallons into navigable waters ¹ in a single spill event	X	X X	IW* X	CW*					40 CFR 112.4
2. PCB SPILLS (see definitions,p.3) or spills of oil known or assumed to contain PCBs > 50 ppm.									
• discharges in any amount and under any circumstances		X X			X				ME Regs CH. 800 4.1
• discharges in any amount which contaminate surface waters, drinking water supplies, sewers, grazing lands, or gardens (Must be > 50 ppm) or a spill which involves > 10 lbs. of PCBs	X	X X	Land /IW* X*	CW*	X				40 CFR 761.125
• discharges exceeding 1 lb. (270 gals of PCB-contaminated oil, i.e. 50-499 ppm, or >2 cups PCB fluid, i.e. capacitor)	X	X X	Land /IW*	CW*	X				40 CFR 302.6
• discharges exceeding 1 lb. (270 gals of PCB-contaminated oil or > 2 cups PCB fluid) that go beyond the facility boundary	X	X X	Land /IW*	CW*	X	X X	X X	X	40 CFR 355.40
3. HAZARDOUS MATERIAL SPILLS²									
• discharges in any amount and under any circumstances		X X			X				ME Regs CH. 800 4.1 CH.801-3.
• discharges which equal or exceed reportable quantities	X	X X	Land /IW*	CW*	X				40 CFR 302.6
• discharges which equal or exceed reportable quantities ³ and go beyond the facility boundary	X	X X	Land /IW*	CW*	X	X X	X X	X	40 CFR 355.40
• discharges which within any 24-hour period equal or exceed reportable quantities ³	X	X X	Land /IW*	CW*					40 CFR 117.21
4. UNIVERSAL WASTE SPILLS									
• discharges from more than 10 mercury-containing lamps or more than 10 CRTs in one incident		X X							Universal Waste Guidance
• discharge from any mercury-containing device (except lamps) or small battery		X X							Universal Waste Guidance
5. NON-HAZARDOUS WASTE SPILLS									
• discharges greater than ½ cubic yard		X X							ME Regs CH. 411 5.

1) Includes adjoining shorelines

2) Excludes PCBs (for the purpose of this notification chart only)

3) See reportable quantities list in this attachment or check with Fred Leigh

* Only if contact cannot be made with the NRC, the EPA or USCG must be notified as appropriate.

** Notify EPA - Toxic Substance Branch directly.

NRC - National Response Center
 MDEP - Maine Dept. of Environmental Protection
 USEPA - U.S. Environmental Protection Agency
 USCG - U.S. Coast Guard
 MSP - Maine State Police
 SERC - State Emergency Response Commission
 LEPC - Local Emergency Planning Committee
 LFD - Local Fire Department
 IW - Inland Waters
 CW - Coastal Waters

SEE NEXT PAGE FOR EMERGENCY TELEPHONE NUMBERS

TELEPHONE INDEX FOR OIL AND HAZARDOUS MATERIAL SPILL NOTIFICATION LOCAL, STATE AND FEDERAL AGENCIES

1. National Response Center 1-800-424-8802
2. Maine Dept. of Environmental Protection 941-4570 (After Hours: 1-800-482-0777)
3. U.S. Environmental Protection Agency
(Region I, Boston) 1-617-223-7265
1-617-918-1527 (Toxic Substances Branch)
4. U.S. Coast Guard 780-3675
5. Maine State Police - Augusta 1-800-452-4664
6. State Emergency Response Commission 1-800-452-8735
(After hours, contact SERC through Maine State Police - Augusta)
7. Local Emergency Planning Committees:
Penobscot County (Sheriff's Office) 942-7911 or 1-800-432-7911
Hancock County (Sheriff's Office) 667-7575
Washington County (Sheriff's Office) 1-800-432-7303
Piscataquis County (Sheriff's Office) 1-800-432-7372
8. Local Fire Departments:
Bangor 942-3211 or 911 Lubec 1-800-432-7303 or 911
Bar Harbor 888-5524 or 911 Machias 1-800-432-7303 or 911
Brewster 942-7911 or 911 Medway 942-7911 or 911
Dartmouth 942-3225 Milford 942-7911 or 911
E. Machias 1-800-432-7303 or 911 Millisocket 942-7911, 723-5125 or 911
Eastport 1-800-432-7303 or 911 Milo 1-800-432-7372 or 911
Ellsworth 667-2525 or 911 Old Town 942-7911 or 911
Holden 942-7911 or 911 Orton 942-7911, 866-4451 or 911
Howland 942-7911 or 911 Orrington 942-7911 or 911
Lamoine 667-7575 Vearse 942-7911 or 911
Lincoln 794-6511
9. Local Hospitals:
Downeast Community Hospital (Machias) 255-3356
Eastern Maine Medical Center (Bangor) 973-8000 (Emergency Dept.)
Maine Coast Memorial Hospital (Ellsworth) 664-3210 (Emergency Dept.)
Millisocket Regional Hospital (Millisocket) 723-5161
Mount Desert Island Hospital (Bar Harbor) 888-5524 (Emergency Only)
Penobscot Valley Hospital (Lincoln) 794-6321 (Emergency Only)
St. Joseph's Hospital (Bangor) 262-5000 (Emergency Dept.)

10 Local Police Departments

Bangor	947-4446 or 911	Lubec	1-800-432-7303
Bar Harbor	288-3391 or 911	Machias	1-800-432-7303 or 911
Brewer	942-7911 or 911	Medway	942-7911 or 911
E. Machias	1-800-432-7303 or 911	Milford	942-7911 or 911
Eastport	1-800-432-7303 or 911	Millischocket	942-7911 or 911
Ellsworth	667-2433 or 911	Mills	1-800-432-7372 or 911
Holder	942-7911 or 911	Old Town	942-7911 or 911
Howland	942-7911 or 911	Orono	942-7911 or 911
Lanome	667-5575	Orrington	942-7911 or 911
Lincoln	794-2227	Veazie	942-7911 or 911

11 CHIEFTRAC (for response advice)

1-800-424-9300

TELEPHONE INDEX FOR OIL AND HAZARDOUS MATERIAL SPILL NOTIFICATION CONTRACTORS

Generally, the Environmental Services and Compliance Group will handle the coordination of outside contractors when their assistance is needed in cleaning up a spill. However, in the case of a Type 2 spill during off hours, the on-call supervisor will be responsible for coordinating cleanup efforts with an outside contractor.

The following contractors are available to provide assistance in various areas:

Oil and Hazardous Material Spill Response

1. Clean Harbor of Maine, S. Portland 603-831-1161 1-800-526-9491

Heavywork and Excavation for Oil Spill Cleanups

Note: The following contractors are to be used only for operating heavy equipment for the purpose of cleaning ditches, covering and minimizing spills. These contractors are not to conduct the cleanup by hand or transport material off site without approval from the Environmental Services and Compliance Group.

2. E. Skip Grindle & Sons, Ellsworth	Days 667-808-4600
	Nights/Weekend 667-808-4600
3. Hanson Construction, Machias	Days 207-806-7233
	Nights/Weekend 207-866-2258 or 207-857-6491
4. Hughes Brothers, L. Hampden	Days 942-4506
	Nights/Weekend 413-801-9017 or 773-928-1117
5. Jones Construction Co., Construction, S.W. Harbor	Days 207-566-8844
	Nights/Weekend 207-566-8844 or 207-566-8000
6. W. E. Jordan & Sons, Ellsworth	Days 667-5230
	Nights/Weekend 667-972-0667 or 667-266-1700

Contractors without appropriate Non-Hazardous Transporter License

7. King Brothers Trucking, West Rutland	Days 772-3641
	Nights/Weekend 772-3641 or 772-4861

REPORTABLE QUANTITIES LIST

Established Reportable Quantities (40 CFR 302.4) for some frequently used hazardous substances at Bangor Hydro-Electric facilities.

<u>Material</u>	<u>RQ</u>
Polychlorinated Biphenyls	1 lb. (>270 gallons of oil with unknown PCB concentration or > 2 cups PCB fluid – See Appendix C)
Oils (various)	Amount which causes a sheen upon the surface of the water or adjoining shoreline or oily sludge deposits beneath the surface of the water.
Waste Degreasing Solvents	100 lbs. (13 gallons of material)
Sulphuric Acid	1000 lbs.
Pentachlorophenol	10 lbs.

Note for personnel responsible for reporting to agencies: see Appendix D for the complete list of reportable quantities.

VI. OIL & HAZARDOUS MATERIAL SPILL CLEANUP PROCEDURES

The following procedures provide general instructions for the cleanup of various spills. Site specific concerns should be addressed during the initial response and these procedures should be modified if necessary based on that assessment. Supervisors or their designees are required to inspect the cleanup of spills of oil or hazardous materials.

A. Lube Oils, Fuel Oils and Non-PCB Dielectric Oils

Scope: These procedures are applicable to spills involving lubricating oils, fuel oils, diesel fuels, and non-PCB dielectric oils. It is not applicable to gasoline or other flammable liquids.

1. Immediate Actions/Safety Precautions

- Shut off and extinguish all sources of ignition which could ignite the spilled oil or the fumes of the spilled oil.
- Take all necessary precautions to prevent ingestion of oil, absorption through the skin, or inhalation of fumes. Wear the following protective equipment:
 - a. Safety glasses
 - b. Neoprene, nitrile or equivalent gloves
 - c. Impervious tyvek suit with protective boots (if risk of exposure)
- Shut down the source of the oil, if possible, or immediately notify the plant office so that qualified personnel can close valves, shut down pumps, stop oil transfer operations, or do whatever is necessary to stop the flow of oil.
- Define spill area and keep unnecessary traffic or persons without proper protective clothing away.
- Smoking is prohibited in the spill area.

2. Contaminated Soil - Containment/Cleanup Actions

- Contain the spill and prevent the oil from reaching water, storm drains, sewers, or drainage to water. Use absorbent pads, absorbent booms, speedy dri, build a berm, or place neoprene disks over any drain holes.
- Place oil-absorbent pads or speedy dri over the spill area to soak up any free oil.
- Remove all visibly contaminated soil and place into steel drums or, in the event of a large spill, pile contaminated soil on a poly sheet and cover the pile with poly.
- Place all contaminated cleanup material, i.e., absorbent materials, rubber gloves, disposable suits and boots, etc., into plastic bags and seal the bags.
- Label the drums and plastic bags with at least the following minimum information:
 - Date of spill/contamination
 - Location of spill/contamination
 - Contents of container
 - "Non-PCB"
- Return drums and plastic bags to a secure area at the appropriate Bangor Hydro facility and notify the facility superintendent.
- The excavated area must be properly backfilled with clean material before the cleanup is to be considered complete.

3. Contaminated Water - Containment/Cleanup Actions

- Oil spills on significant water bodies requiring major containment and cleanup efforts should be dealt with by specialized contractors.

Note: Do not wade into water over a few inches deep.

- If possible, deploy an oil absorbent boom around the perimeter of the spill to prevent spreading.
- Depending on the size of the spill area and the nature of the oil, spread

absorbent pads or an absorbent blanket over surface of water to absorb oil, or a contractor may be hired to use a vacuum truck in order to collect the oil.

- Place all contaminated cleanup material, i.e., absorbent materials, rubber gloves, disposable suits and boots, etc., into plastic bags and seal the bags.
- Label the drums and plastic bags with at least the following minimum information:
 - Date of spill/contamination
 - Location of spill/contamination
 - Contents of container
 - "Non-PCB"
- Return drums and plastic bags to a secure area at the appropriate Bangor Hydro facility and notify the facility superintendent.

4. Cleanup Timetable

Cleanup should commence as soon as possible after the spill is discovered and be completed as expeditiously as possible.

B. Dielectric Oils Known or Assumed to be Over 50 ppm PCB

Scope: These procedures are applicable to spills involving dielectric oil with PCB concentrations known or assumed to be >50 ppm PCB.

1. Immediate Actions/Safety Precautions

- Shut off and extinguish all sources of ignition which could ignite the spilled oil or the fumes of the spilled oil.
- Take all necessary precautions to prevent ingestion of oil, absorption through the skin, or inhalation of fumes. Wear the following protective equipment:

- a. Safety glasses
- b. Neoprene, nitrile or equivalent gloves
- c. Impervious tyvek suit with protective boots (if risk of exposure)
- Shut down the source of the oil, if possible, or immediately notify the plant office so that qualified personnel can close valves, shut down pumps, stop oil transfer operations, or do whatever is necessary to stop the flow of oil.
- Define spill area and keep unnecessary traffic or persons without proper protective clothing away.
- Smoking is prohibited in the spill area.

2. Assessment of PCBs

The cleanup of oil spills involving dielectric oils that may contain PCBs must begin with an assessment as to what concentration of PCBs are involved. If the source of the dielectric fluid is a known piece of electrical equipment, the presence of PCBs can be verified in one of the following ways:

- Check the nameplate to see if there is information regarding the presence of PCBs;
- Check to see if there is a PCB sticker on it;
- Check to see if there is a unique BHE No. on it;
- Check to see if there is a 6" x 6" "No PCB" or "Non PCB" blue/white label applied by Bangor Hydro personnel after verification of the PCB concentration; or
- Supply a sample to a lab for a gas chromatograph analysis (EPA Method 8080) for PCB (see Sample Collection, page 34).

Note: If the presence or level of PCBs cannot be verified, it must be assumed that the oil is PCB-contaminated, i.e., contains 50 to 499 ppm PCB. These spills must be cleaned up in accordance with the guidelines established for low-concentration spills. However, if the spill is more than 270 gallons of oil with an unknown concentration or there is more than one pound of

PCBs involved, the requirements for high-concentration spills will be followed.

3. Contaminated Soil from Low-Concentration PCB Spills (50 to 499 ppm) -
Containment/Cleanup Actions

- Cleanup of a low-concentration PCB spill will be completed in accordance with 40 CFR 761.125(b).
- Contain the spill and prevent the oil from reaching water, storm drains, sewers, or drainage to water. Use absorbent pads, absorbent booms, speedy dri, build a berm, or place neoprene disks over any drain holes.
- Place oil-absorbent pads or speedy dri over the spill area to soak up any free oil.
- Remove all visibly contaminated soil plus a one-foot buffer around the perimeter of the spill area and place into steel drums or, in the event of a large spill, pile contaminated soil on a poly sheet and cover the pile with poly.
- Solid surfaces must be thoroughly double washed/rinsed, if necessary by a trained outside contractor, with kerosene or other solvent specified by the ESC Group. Precautions must be taken to contain and collect any runoff resulting from the cleaning.
- Place all contaminated cleanup material, i.e., absorbent materials, rubber gloves, disposable suits and boots, etc., into plastic bags and seal the bags.
- Label the drums and plastic bags with at least the following minimum information:
 - Date of spill/contamination
 - Location of spill/contamination
 - Contents of container
 - Level of PCB contamination (if known)
- Return drums and plastic bags of spill debris waste to a secondary

containment storage area at the appropriate Bangor Hydro facility and notify the facility superintendent.

- Place a PCB label and a hazardous waste label on all drums and plastic bags of contaminated material.
- Manage waste material as a hazardous waste in accordance with the appropriate facility's SPCC/PCB Management Plan and Hazardous Waste Management Plan.
- If necessary, the ESC Group will conduct post-cleanup sampling.
- The excavated area must be properly backfilled with clean material before the cleanup is to be considered complete.
- All supplies and equipment used in the cleanup must be either disposed of as a hazardous waste or decontaminated by thoroughly double washing/rinsing with kerosene or other solvent specified by the ESC Group.

Cleanup Timetable

Cleanup should commence as soon as possible after the spill is discovered and must be completed within 48 hours.

4. Contaminated Soil from High-Concentration PCB Spills (>500 ppm) or Spills Involving more than One Pound of PCBs - Containment/Cleanup Actions

Note: For high-concentration spills, cleanup actions usually will be done by a qualified outside contractor specializing in the handling of hazardous materials.

- Cleanup of a high-concentration PCB spill will be completed in accordance with 40 CFR 761.125(c).
- Contain the spill and prevent the oil from reaching water, storm drains,

sewers, or drainage to water. Use absorbent pads, absorbent booms, speedy dri, build a berm, or place neoprene disks over any drain holes.

- Place oil-absorbent pads or speedy dri over the spill area to soak up any free oil.
- The spill area must be cordoned off to restrict access to an area encompassing any visible traces of contamination plus a three-foot buffer. Caution tape must be posted advising people to avoid the area. If there has been a delay in reaching the site and there are insufficient visible traces of contamination remaining at the spill site, the site must be cordoned off based on an estimate of the area of suspected contamination.
- Record and document all visible traces of contamination, noting the extent of the contamination and the center of the contaminated area.
- Remove all visibly contaminated soil plus a one-foot buffer around the perimeter of the spill area and place into steel drums or, in the event of a large spill, pile contaminated soil on a poly sheet and cover the pile with poly.
- Solid surfaces must be thoroughly double washed/rinsed, if necessary by a trained outside contractor, with kerosene or other solvent specified by the ESC Group. Precautions must be taken to contain and collect any runoff resulting from the cleaning.
- Place all contaminated cleanup material, i.e., absorbent materials, rubber gloves, disposable suits and boots, etc., into plastic bags and seal the bags.
- Label the drums and plastic bags with at least the following minimum information:
 - Date of spill/contamination
 - Location of spill/contamination
 - Contents of container
 - Level of PCB contamination (if known)

- Return drums and plastic bags of spill debris waste to a secondary containment storage area at the appropriate Bangor Hydro facility and notify the facility superintendent.
- Place a PCB label and a hazardous waste label on all drums and plastic bags of contaminated material.
- Manage waste material as a hazardous waste in accordance with the appropriate facility's SPCC/PCB Management Plan and Hazardous Waste Management Plan.
- Post-cleanup sampling will be conducted by the ESC Group.
- The excavated area must be properly backfilled with clean material before the cleanup is to be considered complete.
- All supplies and equipment used in the cleanup must be either disposed of as a hazardous waste or decontaminated by thoroughly double washing/rinsing with kerosene or other solvent specified by the ESC Group.

Cleanup Timetable

Cleanup should commence as soon as possible after the spill is discovered but must be completed within 24 hours (48 hours for PCB transformers).

5. Contaminated Water - Containment/Cleanup Actions (High and Low-Concentration PCB Spills)

Note: For high-concentration spills or spills on significant water bodies requiring major containment and cleanup efforts, cleanup actions usually will be done by a qualified outside contractor specializing in the handling of hazardous materials.

- Do not wade into water over a few inches deep.
- If possible, deploy an oil absorbent boom around the perimeter of the

spill to prevent spreading.

- Depending on the size of the spill area and the nature of the oil, spread absorbent pads or an absorbent blanket over surface of water to absorb oil, or a contractor may be hired to use a vacuum truck in order to collect the oil.
- Place all contaminated cleanup material, i.e., absorbent materials, rubber gloves, disposable suits and boots, etc., into plastic bags and seal the bags.
- Label the drums and plastic bags with at least the following minimum information:
 - Date of spill/contamination
 - Location of spill/contamination
 - Contents of container
 - Level of PCB contamination (if known)
- Return drums and plastic bags of spill debris waste to a secondary containment storage area at the appropriate Bangor Hydro facility and notify the facility superintendent.
- Place a PCB label and a hazardous waste label on all drums and plastic bags of contaminated material.
- Manage waste material as a hazardous waste in accordance with the appropriate facility's SPCC/PCB Management Plan and Hazardous Waste Management Plan.

Cleanup Timetable

Cleanup should commence as soon as possible after the spill is discovered and must be completed within 48 hours for 50-499 ppm PCB oil spills and within 24 hours for greater than 500 ppm PCB oil spills (48 hours for PCB transformers).

C. Acidic Materials

Scope: The following procedures apply to minor releases (less than 1/2 gallon) of acidic materials, such as battery acid or sulfuric acid from de-energized batteries. Bangor Hydro personnel will only clean up spills of acidic materials \leq 1/2 gallon in size which are discovered upon entry to an area or are witnessed and no warning properties are observed (i.e., odor is detected, eyes water, or nose/throat are irritated) and/or aerosolization has not occurred as evidenced by air-borne mist/fog or sputtering/splattering. Contractors will be used for spills larger than 1/2 gallon, where any warning properties are present, where prior knowledge of a spill exists before entering the area, or for spills where the material has aerosolized. The supervisor must contact the ESC Group to report each spill and for advice, if necessary, in spill scenarios involving acidic materials.

Please follow the guidelines below only for spills which meet the following criteria:

Battery acid spill of \leq 1/2 gallon (i.e., 2 foot square area) which is discovered upon entry to an area or is witnessed and no warning properties are observed (see scope above) and/or aerosolization has not occurred (see "scope" above):

1. Immediate Actions/Safety Precautions

- Inspect area to determine size of spill, whether active or not, whether contained or not, and other hazards.
- Report the spill to your supervisor.
- All personnel involved in the cleanup of an acid spill \leq 1/2 gallon (i.e., 2 foot square area) will wear disposable, protective gloves (minimum nitrile or equivalent) and a full face shield with goggles (or chemical goggles with safety glasses). They will also wear disposable overboots and a neoprene apron if risk of exposure. (Note: Saranex suits are available in the Spill Response Trailer at Graham Station.)

- Define spill area and keep unnecessary traffic and persons without proper protective clothing away.
- Ventilate and de-energize battery banks as applicable.
- Smoking is prohibited in the spill area.
- Prior to initiating any cleanup action, make sure the source of the acid has been contained and there is no threat of further spills.

2. Containment/Cleanup Actions

- Absorb free liquid acid using chemical absorbent sheets, pillows, booms or powder, and collect into plastic drums (provided in specialized aggressive material spill kits) and seal tightly.
- Wash spill area down with soapy water to remove any residue.
- Label the drums with at least the following minimum information:
 - Date of spill/contamination
 - Location of spill/contamination
 - Contents of container
- Place the drums in a secondary containment storage area away from flammable liquids and combustible gases and notify the facility superintendent.
- Manage waste material in accordance with the appropriate facility's SPCC and Hazardous Waste Management Plans.
- Decontaminate the non-disposable protective clothing using soap and water, allow to dry, and return to storage area.

3. Cleanup Timetable

Cleanup should commence as soon as possible after the spill is discovered and be completed as expeditiously as possible.

Note: Do not enter an area where any warning properties are present or where aerosolization has occurred.

D. Alkaline Materials

Scope: This procedure is applicable to spills of alkaline material such as caustic soda (sodium hydroxide).

1. Immediate Actions/Safety Precautions

- All personnel involved in the cleanup of an alkaline material spill will wear disposable, protective gloves (minimum nitrile or equivalent) and a full face shield with goggles (or chemical goggles with safety glasses). They will also wear disposable overboots and a neoprene apron if risk of exposure.
- Define spill area and keep unnecessary traffic or persons without proper protective clothing away.
- Ventilate the area.
- Prior to initiating any cleanup action, make sure the source of the material has been contained and there is no threat of further spills.
- Smoking is prohibited in the spill area.

2. Containment/Cleanup Actions

- Absorb free liquid using chemical absorbent sheets, pillows, booms or powder and collect into plastic drums (provided in specialized aggressive material spill kits) and seal tightly. Sweep up solid spills and collect for reuse (if not contaminated) or disposal in plastic drums.
- Label the drums with at least the following minimum information:
 - Date of spill/contamination
 - Location of spill/contamination
 - Contents of container
- Place the drums in a secondary containment storage area away from flammable liquids and combustible gases and notify the facility superintendent.

- Manage waste material in accordance with the appropriate facility's SPCC and Hazardous Waste Management Plans.
- Decontaminate the protective clothing using neutralizer and water, allow to dry and return to Storage area.

3. Cleanup Timetable

Cleanup should commence as soon as possible after the spill is discovered and be completed as expeditiously as possible.

E. Solvents and Flammable Liquids

Scope: This procedure is applicable to small spills of solvents (i.e., degreasing solvent) and flammable liquids (i.e., gasoline) in well ventilated areas. In case of spills of these materials into confined spaces, consideration will be given to hiring an outside contractor to perform the cleanup actions. Respiratory protection may be necessary in poorly ventilated areas and the supervisor must contact the ESC Group or the Safety Department for advice.

1. Immediate Actions/Safety Precautions

- All personnel involved in the cleanup will wear disposable neoprene, nitrile or equivalent gloves and safety glasses. They will also wear disposable overboots and disposable, tyvek coated coveralls if risk of exposure.
- Define spill area and keep unnecessary traffic or persons without proper protective clothing away.
- For flammable liquids, keep all ignition sources away. No smoking or open flame is allowed near the area.
- Ventilate the area and assess need for respiratory protection.
- Prior to initiating any cleanup action, make sure the source of the material has been contained and there is no threat of further spills.

2. Contaminated Soil - Containment/Cleanup Actions

- Contain the spill and prevent the free liquid from reaching water, storm drains, sewers, or drainage to water. Use absorbent pads, absorbent booms, speedy dri, build a berm, or place neoprene disks over any drain holes.
- Absorb free liquid using oil absorbent pads or speedy dri and collect into steel drums.
- Excavate and collect any contaminated soil into steel drums.
- Place all contaminated cleanup material, i.e., absorbent materials, rubber gloves, disposable suits and boots, etc., into plastic bags and seal the bags.
- Label the drums and plastic bags with at least the following minimum information:
 - Date of spill/contamination
 - Location of spill/contamination
 - Contents of container
- Return drums and plastic bags to a secondary containment storage area at the appropriate Bangor Hydro facility and notify the facility superintendent.
- Manage waste material in accordance with the appropriate facility's SPCC and Hazardous Waste Management Plans.

3. Contaminated Water - Containment/Cleanup Actions

- Solvent and flammable liquid spills on significant water bodies requiring major containment and cleanup efforts should be dealt with by specialized contractors.

Note: Do not wade into water over a few inches deep.

- If possible, deploy an oil absorbent boom around the perimeter of the spill to prevent spreading.

- Depending on the size of the spill area and the nature of the material, spread absorbent pads or an absorbent blanket over surface of water to absorb free liquid, or a contractor may be hired to use a vacuum truck in order to collect the material.
- Place all contaminated cleanup material, i.e., absorbent materials, rubber gloves, disposable suits and boots, etc., into plastic bags and seal the bags.
- Label the drums and plastic bags with at least the following minimum information:
 - Date of spill/contamination
 - Location of spill/contamination
 - Contents of container
- Return drums and plastic bags to a secondary containment storage area at the appropriate Bangor Hydro facility and notify the facility superintendent.
- Manage waste material in accordance with the appropriate facility's SPCC and Hazardous Waste Management Plans.

4. Cleanup Timetable

Cleanup should commence as soon as possible after the spill is discovered and be completed as expeditiously as possible.

F. Mercury-Containing Lamps and Other Mercury-Containing Devices

Scope: This procedure is applicable to spills of mercury-containing lamps (fluorescents & HIDs) and other mercury-containing devices (i.e. mercury thermostats). In cases where a large number of mercury-containing devices had been broken and spilled mercury, consideration should be given to hiring an outside contractor to perform the cleanup actions. The supervisor must contact the ESC Group or the Safety Department for advice.

1. Immediate Actions/Safety Precautions

- All personnel involved in the cleanup of a mercury-containing lamp or other device spill will wear neoprene, nitrile or equivalent gloves and safety glasses.
- If inside, lower the temperature and increase the ventilation in area.
- Define spill area and keep unnecessary traffic or persons without proper protective clothing away.
- Prior to initiating any cleanup action, make sure the source of the material has been contained and there is no threat of further spills.

2. Containment/Cleanup Actions

For broken mercury-containing street lamps:

- If inner ampule still intact, try to remove ampule without breakage (mercury is contained inside inner ampule) either by bending out of the way or cutting off the ampule. Place ampule and rest of lamp inside plastic bag. Remove any broken lamp glass from ground and place in same bag and seal.
- If inner ampule broken, remove damaged lamp and any broken glass and metallic mercury visible on the ground and place in plastic bag and seal.
- Label the bag with the date, pole number and town.
- Place the sealed bags in the satellite container for broken mercury-containing lamps stored in the hazardous waste storage area at appropriate BHE facility.
- All other items (i.e., brooms, shovels, sponges, etc.) used in the cleanup should be considered contaminated and disposed of as waste. All waste should be placed into a plastic pail and labeled with date, location of spill, and contents of pail. Return debris to hazardous waste storage area at appropriate BHE facility.
- Manage waste material in accordance with the appropriate facility's

SPCC and Universal Waste or Hazardous Waste Management Plans.

For all other mercury-containing device/lamp spills:

- Scoop or wipe up as much of the discharged material and damaged mercury-containing device/lamp as possible.
- If outside, remove all visibly contaminated soil, etc.
- If inside, wipe spill area thoroughly with wet sponge. Go over area with masking tape to pick up small particles of mercury. If spill occurred on carpet or other permeable surface, it may be necessary to remove contaminated flooring.
- All spilled material and items (i.e., brooms, shovels, sponges, etc.) used in the cleanup should be considered contaminated and disposed of as waste. All waste should be placed into a plastic pail and labeled with date, location of spill, and contents of pail. Return debris to hazardous waste storage area at appropriate BHE facility.
- Manage waste material in accordance with the appropriate facility's SPCC and Universal Waste or Hazardous Waste Management Plans.

3. Cleanup Timetable

Cleanup should commence as soon as possible after the spill is discovered and be completed as expeditiously as possible.

VII. SAMPLE COLLECTION

In order to properly dispose of the oil-contaminated soil, water, or cleanup materials, the exact nature of the contamination must be determined through lab analysis. Also, in the event of a dielectric oil spill, it is critical to determine the amount of PCBs by lab analysis as quickly as possible. Therefore, it is the responsibility of the person coordinating the spill cleanup effort to collect any necessary samples in accordance with the following procedures. Sample requirements differ depending on the specifics of each spill event. For a particular spill event, consult with the Environmental Services and Compliance Group to determine the appropriate type and number of samples required.

A sample must be collected in the volume and type of container as specified below:

- Water Sample: 2 one-liter glass jars.
- Soil Sample: 1 eight-ounce glass jar.
- Oil Sample: 1 twenty-ml glass vial.

Labeling: The sample must be labeled with the following information:

- Name of company and facility
- Contents of jar
- Date sample was collected
- A unique identifying code that is cross-referenced to records documenting the exact sample location (For example: In the case of a transformer, the unique identifying code would be the serial number on the nameplate.)

	<u>Source of Spill</u>	<u>Type of Sample that may be Required</u>	<u>Handling Procedure</u>
1.	Virgin Oil Product	None Required	N/A
2.	Waste Oil Product	Oil or Soil	Note 2
3.	Non-PCB Dielectric Oil (Manufacturers Label)	None Required	N/A
4.	Dielectric Oil (Unknown PCB Concentration)	Oil or Soil	Note 1
5.	Unknown Source of Other Oil	Soil or Water	Note 2
6.	Unknown Source of Dielectric Oil	Soil or Water	Note 1

Note 1: Deliver sample(s) to a lab on the first weekday practical either by hand carrying or mailing (see addresses below). (For spills that occur on Monday or Tuesday morning, see Note 3 as an option.) Prior to sample delivery, call the lab office at numbers below and arrange for a "RUSH" PCB analysis of the oil sample. Soil samples need not be processed on a rush basis unless they are the only available sample(s). If this is the case, ask for a "RUSH" oil spill debris analysis of the soil. Complete a Chain of Custody form to accompany the sample. Give the name and telephone number of the person coordinating the spill cleanup and ask that this person be notified of the test results as soon as possible. **In an emergency situation or if there are extenuating circumstances, coordinate with the lab to arrange for immediate PCB analysis.**

Northeast Laboratories:

Deliver sample(s) to:

Northeast Laboratories (Drop-Off Box Available)
China Road
Winslow, ME 04901

Mail sample(s) to:

Northeast Laboratories
Attn: Sample Receipt
P.O. Box 788
Waterville, ME 04903-0788

- | | | | |
|----|------------------------|---------------|-------------------------------|
| a. | Monday through Friday: | Call | 873-7711 or
1-800-244-8378 |
| b. | Saturday and Sunday: | Kelly Perkins | 465-7443
314-1406 (cell) |

Note 2: Deliver sample(s) to a lab on the first weekday practical either by hand carrying or mailing (see address above). (For spills that occur on Monday or Tuesday morning, see Note 3 as option.) Based on knowledge, determine testing requirements. For information regarding waste oil, review the MSDS sheet for the product or typical waste oil analysis may include flashpoint, total RCRA eight metals, total halogens, and PCBs. Complete a Chain of Custody form to accompany the sample. **In an emergency situation or if there are extenuating circumstances, coordinate with the lab to arrange for immediate analysis.**

Note 3: Pickup available only by Northeast Laboratories. Place sample(s) outside interior office door at Graham Station prior to 11 a.m. on Tuesday morning. Contact Northeast Laboratories as soon as possible to coordinate pick up of sample(s) by courier from Northeast Laboratories.

APPENDIX A

BANGOR HYDRO-ELECTRIC COMPANY
Spill Information Collection Form

Form #26-441
Rev. 10/02

This form is used by the SO and ESCG to obtain and report information about an incident. Fill in the appropriate information or circle the appropriate response. If question does not apply, indicate NA.

1. Person Reporting Spill (to you): _____
2. Date Report Taken: _____ Time Report Taken: _____
3. Location of Incident (Street Name, House/Pole/Box/Rt. No.): _____
4. Need for Rescue (yes/no): If yes, describe. _____
5. Date Spill Discovered: _____ Time Spill Discovered: _____
6. Description of Spill Area (i.e., soil, lawn, water): _____
7. Size of Spill Area: _____
8. Est. Amount and Type of Material: _____
9. PCB information on transformer nameplate (yes/no): _____
(If yes, exact wording.)
10. Equip. Serial No. _____ Mfg. _____ Size _____
11. Did the spill enter surface water? Y N
12. Did the spill enter storm drains? Y N
13. Is the spill in or near drinking water supplies? Y N
14. Is there a major fire or explosion? Y N
15. Is there a major public involvement? Y N
16. Does the spill involve more than 270 gallons of oil? Y N
17. Does the spill involve oil over 50 ppm PCB? Y N
18. Did the spill enter grazing lands or gardens? Y N

If yes to any of questions 11-18, this is a Type II incident. Someone from the Environmental Services & Compliance Group and the appropriate on-call supervisor must be contacted.

19. Contained On-Site (yes/no): If no, describe area or surface water threatened. _____
20. Initial Response Actions Undertaken: _____
21. Cause of the Spill: _____
22. Are there spill-related injuries (yes/no): If yes, describe. _____
23. Victim's Name: _____
24. Agencies Reported to: _____
25. Report prepared by: _____
Agency Date Time Person Reported To

Send to Mona Spear in the Environmental Services and Compliance Group.

APPENDIX B

Field Spill Actions and Cleanup Report

Date and Time of Incident: _____

1. Location of Incident:

Town: _____ Division: _____

Street Name: _____ Facility: _____
(where spill occurred)

County: _____ Pole No.: _____

2. Source of Spill:

☐ Electrical Equipment: ☐ Other:

Type: _____ Specify: _____

Make: _____

Size: _____

Serial No.: _____

3. Spill Information:

Substance: _____ Level of PCB's: _____
(See equipment nameplate or existing
lab analysis)

Amount Spilled: _____

Size of Spill Area: _____
If PCB concentration unknown, oil
sample sent to: lab _____ or Envir. _____
(Chain of Custody must go w/ sample
to lab and copy to Environmental Group.)

Description of Spill Area: _____

Cause of Spill: _____

Measures Taken to Clean Up Spill: _____

Property Damage: _____

Injuries/Fire: _____

4. Spill Cleanup Actions:

Check if applicable and completed.

- | | |
|---|---|
| <input type="checkbox"/> Assess hazards/PCB Assessment (Nameplate info., amount of oil, size of spill area) | <input type="checkbox"/> Monitor the situation |
| <input type="checkbox"/> Determine if assistance is needed, i.e., fire dept., police, rescue, DEP, etc. | <input type="checkbox"/> Status reports to BHE Corporate Office |
| <input type="checkbox"/> Evacuate facility, if necessary | <input type="checkbox"/> Complete cleanup |
| <input type="checkbox"/> Take head count (for evacuation) | <input type="checkbox"/> Transport equipment and debris to storage building |
| <input type="checkbox"/> Spill Reported to SO or ESCG (ASAP but within two hours) | <input type="checkbox"/> Label debris with date, location of spill, contents of drum & PCB concentration if known |
| <input type="checkbox"/> Assign proper PPE | <input type="checkbox"/> Inspect cleanup activities and declare incident over |
| <input type="checkbox"/> Contain Spill | <input type="checkbox"/> Replace/repair emergency equipment, refill fire extinguisher, replace items used during the incident, i.e., gloves |
| <input type="checkbox"/> Restrict Access to Spill Area | |

Amount of Debris Collected: _____

5. Reporting Information:

Reported to SO or ESCG: _____
(circle one) (name)

Reported to SO or ESCG
by whom: _____
Date: _____ Time: _____

Signature of Supervisor/Designee Completing Spill Report and Inspecting Spill Cleanup

Date Cleanup was Inspected

Send form to Fred Leigh in the Environmental Services and Compliance Group

ENVIRONMENTAL\FORM\SPILLFORM-FIELD

SPILL RESPONSE AND CLEANUP SUPPLIES AVAILABLE

A variety of spill response and cleanup supplies are available at various locations throughout the company.

Spill lockers can be found in each outside division. A Spill Supplies Room can be found at our Main Street Garage facility and a Spill Supplies Building can be found at our Main Street facility just in back of the Stockroom. All of these areas contain various absorbent materials, protective equipment, and cleanup tools. The spill lockers and Spill Supplies Room generally contain enough materials to respond to a large spill or a number of smaller spills. See **Spill Supplies Locker Inventory** list and "Garage Spill Supplies Room Inventory" section on the **Main Street, Bangor, Fleet Maintenance, Machine Shop, and Boiler Room SPCC Inspection Checklist** following this page. The Spill Supplies Building generally contains enough material to respond to a few larger spills or many smaller spills. See **Main Street Spill Supply Building Inventory** list following this page.

As a means of initial containment when out in the field, vacuum-packed spill kits are located in all company operating vehicles. These vacuum-packed spill kits contain a small amount of absorbent pads, a few small booms, a pair of rubber gloves and boots, a polycoated tyvek suit, a roll of caution tape, and a couple of plastic disposal bags with ties.

In response to spills of aggressive materials such as battery acid, 20-gallon plastic spill kits are kept available when conducting battery maintenance and are stored in the Spill Response Trailer or the Supplies Room at Graham Station. In addition, a 20-gallon plastic spill kit for aggressive materials is also available at the Vehicle Maintenance facility in Bangor. The kits contain the appropriate pads, booms, pillows, superabsorbent powder, and disposal bags necessary for the cleanup of aggressive material spills.

A Spill Response Trailer is also available at our Graham Station facility for use in responding to larger or more complicated spills especially those occurring at substations. A large number of absorbent materials, protective equipment, and tools for responding to all types of spills are stored in the Spill Response Trailer. For a complete list of materials stored on the Spill Response Trailer, see the **Spill Trailer Inventory** list following this page.

In addition to all of the spill supplies mentioned above which are stored throughout the company, additional spill response and cleanup supplies are always available through the Stockroom located at 678 Main Street in Bangor or from spill response vendors listed on page 15.

SPILL SUPPLIES LOCKER INVENTORY

Rev. 7/02

2	rolls duct tape
1	roll caution tape
3	bundles absorbent pads (absorption cap. - approx.. 96 gals.)
40	feet oil absorbent booms (min. 5") (absorption cap.- approx. 32 gals.)
1	roll absorbent blanket (absorption cap. – approx. 110 gals.)
1	bag speedy dri (absorption capacity – approx. 5 gals.)
10 (min.)	pair of nitrile gloves
10 (min.)	polycoated tyvek suits
10 (min.)	pair of latex overboots
1	roll large 6 mil poly bags
1	roll 6 mil poly sheeting
1	push broom
1	spade
1	flat shovel
2	pair splash goggles
1	mercury spill kit

MAIN STREET, BANGOR
FLEET MAINTENANCE, MACHINE SHOP, AND BOILER ROOM SPCC INSPECTION CHECKLIST

Any deficiencies or comments should be noted in the Comments section. A thorough inspection of all areas should be made. All items should be checked weekly unless another frequency is indicated.

	Date/Initials
General Conditions (weekly)	<u>Y/N</u>
Is there any damage to security measures at the facility (i.e. damaged/not functioning fence or gates surrounding complete Main Street Facility; damaged locks, doors, or lighting at Garage)?	
Are any drums or containers stored in a position other than upright?	
Are any drums or containers stored in locations other than appropriate, designated storage areas?	
Are any drums or containers leaking or showing evidence of past leaks?	
Is the hazardous waste solvent drum leaking, dented, bulging, rusted, or unlabeled and missing its "Satellite Start Date"?	
Is the hazardous waste solvent drum full? If full, is it missing its "Full Date" on the hazardous waste label? Is the full date more than 90 days old?	/ /
Is there any evidence of leaks, drips, discoloration, corrosion, or distress from any of the aboveground oil tanks or piping?	
Are any flammable materials, not being used, stored outside of the flammable material storage cabinets?	
Is there any obvious damage to secondary containment measures?	
Hydraulic Lift System	
Are the fluid seals at each jack and control valve stem leaking? (Monthly)	
Are any hydraulic hoses, pipes, or fittings leaking, draining, or deteriorated? (Quarterly)	
Is the hydraulic oil tank level at some level other than "full"? (Quarterly)	
Do jacks stop short of full rise when lifting? (Quarterly)	
Does the lift unit squeal? (Quarterly)	
Garage Spill Supplies Room Inventory (weekly)	
Item-----Inventory Quantity-----Quantity on Hand	
Roll of caution tape-----1 roll	
Bundles of absorbent pads-----2 (absorp. cap. approx. 64 gals.)	
Oil absorbent boom-----40 feet (min. 5") (absorp. cap. approx. 32 gals.)	
Bag of Speedy Dri-----1 absorb. cap. approx. 5 gals.)	
Pair of nitrile gloves-----5 (minimum)	
Polycoated tyvek suits-----5 (minimum)	
Pair of latex overboots-----5 (minimum)	
Push broom-----1	
Flat shovel-----1	
Pair of splash goggles-----2	
Battery acid spill kits-----2 (absorp. cap. approx. 152 gals.)	

COMMENTS: (PLEASE DATE COMMENTS)

Notes: * The Fleet Maintenance, Machine Shop, and Boiler Room Areas pass the inspection if all of the above questions are answered with No.

If yes is answered to any of the above questions, ensure that appropriate action is taken to remedy the situation and make a notation on the inspection form indicating the date of the correction.

MAIN STREET SPILL SUPPLY BUILDING -INVENTORY CHECKLIST

_____ Tamper Proof Tag Intact (Yes/No). If tamper-proof tag is intact, no need to check inventory levels, just date and initial below.

<u>Inventory Quantity</u>	<u>Quantity On Hand</u>	<u>Items</u>
2	_____	rolls of duct tape
1	_____	roll of caution tape
3	_____	bundles of absorbent pads (absorp. cap. – approx. 96 gals.)
40'	_____	oil absorbent boom (min. 5")(absorp. cap. – approx. 32 gals.)
1	_____	roll absorbent blanket (absorp. cap. – approx. 110 gals.)
3	_____	bags of Speedy Dri (absorp. cap. – approx. 15 gals.)
10 (min.)	_____	pair of nitrile gloves
10 (min.)	_____	polycoated tyvek suits
10 (min.)	_____	pair of latex overboots
1	_____	roll large 6 mil poly bags
1	_____	roll 6 mil poly sheeting
2	_____	push brooms
2	_____	spades
2	_____	flat shovels
3	_____	55-gallon open-top drums
3	_____	85-gallon open-top drums
3	_____	vacuum-packed spill kits
6	_____	oil sample vials
6	_____	oil sample pipettes
10	_____	zip lock bags

Also keep on hand some "BHE Equipment Removed From Service Tags," spill debris tags/labels and pens and pencils for writing.

Completed by: _____ Date: _____ Restocking Date: _____

GRAHAM STATION
SPILL TRAILER INVENTORY

Rev. 4/03

- 4 55-gallon open-top drums
- 1 street broom
- 3 shovels (2 spades & 1 flat)
- 1 case latex overboots (preferably XL)
- 2 cases polycoated tyvek suits (preferably XXXL)
- 1 case nitrile gloves
- 4 bales of absorbent pads (absorption capacity – approx. 128 gals.)
- 1 roll absorbent blanket (absorption capacity – approx. 110 gals.)
- 120 feet 5" absorbent booms (absorption capacity – approx. 96 gals.)
- 3 bags speedy dri (absorption capacity – approx. 15 gals.)
- 2 rolls 6 mil poly sheeting
- 1 roll large 6 mil poly bags
- 1 roll caution tape
- 2 rolls duct tape
- 1 case saranex suits (generally XXXL w/ hood and boots)
- 2 battery acid spill kits with encapsulating power (absorption capacity – approx. 152 gals.)
- 2 10-gallon DOT approved pails (for transporting batteries or debris from battery-acid spills)

APPENDIX C

APPENDIX C

CALCULATION FOR 1 POUND OF PCBS IN EQUIPMENT

Given: 500 ppm PCBs x 270 gallons oil = 1 lb. of PCBs within the oil

270 gals. X 500 ppm = ? gals. X # ppm (per lab analysis)
(equal to 1 lb. PCBs)

Example: 270 x 500 = ? gals. x 1,000 ppm

135,000 = ? gals. x 1,000 ppm

135,000/1,000 = ? gals. x 1,000/1,000

135 = ? gals.

135 gals. of oil at 1,000 ppm = 1 lb. PCBs

Hence: Divide 135,000 by the PCB concentration (in ppm) to find the number of gallons required to exceed 1 pound of PCBs.

APPENDIX D

APPENDIX D

The complete list of hazardous substances and their reportable quantities is only provided for Bangor Hydro-Electric Company personnel responsible for reporting to agencies.

APPENDIX E

Bangor Hydro Phone List (last updated 08/31/2004)

Name	Ext.	Phone	Pager	Mobile	Name	Ext.	Phone	Pager	Mobile
Abbott, Vincent	3732				D'Errico, Michael	3216			
Adams, John	2730	973-2730			Deschesne, Mark	2781			
Albert, Jason	2283	941-6602			Desmond, Benjamin	2739	941-6620		
Ambrose, Richard	2791				Dickey, William	2711	973-2711		
Apt. Mike	2740	973-2740			Donovan JR, Malcolm	3810	255-4749		
Auxier, Daniel	3216	941-6668			Doughty, Jeffrey	3188			
Auxier, Scott	2540	973-2540			Doughty, Wayne	2781			
Baine, Mike	3829	255-6727		944-8225	Dow, Stephen	2857	973-2857		
Ballesteros, Gayle	2808	973-2808			Dowling, Thomas	3216	941-6668		
Ballesteros, Luann	2239	941-6651		949-3915	Dowling, James	3807			
Bambrick, Maureen	2609	973-2609			Dowling, Sue	2526	973-2526	264-1916	598-7888
Barrett, Scott	2739	941-6620			Doyon, John	2534	973-2534	580-2676	949-3742
Beal, Obed	3807				Dunton, Robert	2717			
Belcher, Kristen	2898	973-2898			Duplisea, Gary	2505	973-2505	580-2577	
Bellantoni, Anthony	2872	973-2872	580-2713		Economy, Robert	3216			
Bender, Bruce	2781				Fairweather JR, Robert	3719	941-6604	821-6034	461-0324
Bennett, Robert	2525	973-2525		478-6892	Fenn, Jeffrey	2532	973-2532		
Billings, Kathleen	2336	941-6636		949-3916	Firley, Barbara	2401	947-2414		
Birmingham, Rand	3742	667-3184			Fortier, Kimberly	2638	973-2638		
Bishop, Robin	3206	941-6693			Fox, Jill	2430	947-2414		
Bishop, Holly	2529	973-2529	580-2673		Gabarra, John	2530	973-2530	580-2678	356-1921
Black, Kevin	3219	941-6616			Gaetani, Peter	3216		580-2770	
Black, Rod	2298	990-6972			Gallop, Holly	2400	947-2414		
Blethen, David	2913	973-2913	580-2715		Garver, Dwayne	2791			
Bonin, Michael	2791				Gates, Alan	3188			
Bowden, David	3723	667-3184			Getchell, James	3807			
Bowen, Stanley	2717				Gilman, Renee	2445	947-2414		
Brewer, Cynthia	2347	941-6656			Glidden, Phillip	2572	973-2572	580-2142	949-3966
Brooker, Jennifer	2429	941-6649			Gomm, Andrew	2739	941-6620		
Brown, Claude	2791				Gonyea, Paul	2739	941-6620		
Brown, Anthony	2781				Goode, JoAnna	2473	945-5621		
Burns, Elizabeth	2574	973-2574			Goughnour, Vicki	2433	947-2414		
Burtchell, Kenneth	3732				Grant, Nancy	2901	973-2901		
Buswell, Sharon	2835	973-2835		356-9744	Gray, Brian	2514	973-2514	580-2679	
Butler, Dean	2672	973-2672		949-3922	Gray, Jeffrey	2268	973-2818		
Cale, Sharon	3810	255-4749			Greaves, John	3216	941-6668		
Cameron, Steven	3732				Grillo, Lois	2597	973-2597		949-3937
Cameron, James	2202	941-6657	580-2567	949-3967	Hachey, Gary	3216			
Card, Alicia	2825	973-2825			Hackett JR, Lledrew	2781			
Caron, Peter T	2882	973-2882			Haines, Peter	3130	794-8353		
Caron, Peter	2132	990-6917			Hale, Joanne	2816	973-2816	580-2719	
Chase, Cassandra	2472	945-5621			Hale JR, Francis	3188			
Chasse, Gerard	2653	973-2653	821-3692	944-1277	Hamlin, Matthew	3188			
Clapp, Eric	2586	973-2586	580-2774	949-3958	Hamlin, Jeffery	2311	941-6643	557-9019	557-9019
Clark, Robert	2463	947-2414			Hanscom, Peter	3807			
Clarke, Bruce	3732				Harding, Timothy	2791			
Clewley, John	3732				Hardison, Thomas	2791			
Cobb, John	2210	990-6995	580-2772		Hartley, James	2802	973-2802		944-8224
Coffin, Terry	3724	941-6612	823-5473	461-0327	Haskell, Melodie	3742	667-3184		
Coffin, Joseph	2714	973-2714	758-1864		Hastings, Randal	3742	667-3184		
Cookson, Edward	2791	973-2791	580-2693	944-7932	Hayes, Scott	3216			
Copeland, Barbara	2428	947-2414			Haynie JR, John	3723	667-3184		
Coulombe, Christian	3188				Heal, Guy	3130	794-8353		
COX, Sherry	3810	255-4749			Henderson, Michael	2791			
Croft, Carl	2617	973-2617	821-0031	416-8347	Higgins, Mark	2791			
Crook, Janna	2829	973-2829			Hines, Gregory	2862	973-2862		852-4190
Crouse III, George	2702	973-2702	580-2694		Holland, Jean	2828	973-2828		
Cushing III, John	2739	941-6620			Huffman, Troy	3723	667-3184		
Davis, Dawn	3810	255-4749			Isherwood-Jobst, Michael	2405	947-2414		
Dawes, Peter	2389	941-6631			Jackson, Mary	2520	973-2520		
Day, Christopher	3216				Jamison, Stephanie	2404	947-2414		
Dean, Kristina	2564	973-2564	580-2675		Johnson, Terri	2664	973-2664		949-3938
Deroche, Edward	2713	973-2713			Jones, Jeffrey	2899	973-2899		949-3924

Name	Ext.	Phone	Pager	Mobile	Name	Ext.	Phone	Pager	Mobile
Jones, Penny	2633	973-2633			Nelson, David	2739	941-6620		
Jordan, Vaughn	2781				Newey, Glen	2536	973-2536		
Kane, William	3732				Newman, Wayne	2268	941-6690		
Keep, David	2810	973-2810		949-3972	Oakes, Richard	2739	941-6620	580-2703	944-0351
Kelly, Shiella	2435	947-2414			Oakes JR, Carlton	3188			
King, Robert	2310	941-6658			O'Connell, Kevin	2781			
King, Alex	2267	941-6690			O'Halloran, Susan	2426	945-5621		
King, Anne	2739	973-2739			Omlor, Lori	2853	973-2853		
King, Donald	2696	973-2696	821-3007	949-3957	Ouellette, Donald	2697	973-2697	758-6458	944-1270
King, Mark	2791				Overlock, Kendra	2895	973-2895		
King, David	2439	945-5621			Page, Christopher	2791			
King III, Charles	2791				Paine, Charles	2631			
Kirby, Thomas	3723	667-3184	580-2727		Paine JR, Willis	3732			
Labbe, Suzette	2223	941-6624	580-2729		Paradis, Mark	2612	973-2612		
Lagasse, Mark	2636	973-2636		949-3956	Parker, Gregory	2739	941-6620		
Lamberton, Mark	2582	973-2582	580-2695	659-0484	Peasley, Robert	2518	973-2518	823-1241	299-5834
Laplace, Ronald	2791				Pedersen, Lisa	2461	945-5621		
Largay, Kathleen	2315	941-6691			Pelletier, Joel	2706	973-2706	580-2704	
Lary, Dwayne	3117	794-8353			Pender, Thomas	3188			
Lawler, Barbara	2245	941-6659			Perkins, David	3180	941-6628		949-3918
Leavitt, Roberta	3130	794-8353			Perkins, Randal	3216	941-6668		
Leeman, William	2267	941-6690	580-2696		Phair, Mark	3208	990-6901	580-2705	944-1072
Leigh JR, Frederick	2543	973-2543	580-2681	949-3943					461-2793
Leland, Barry	2293	941-6660			Philbrick, Bruce	2570	973-2570		
Lemieux, Steve	2268	973-2818			Piper, Janis	2378	941-6678		478-5562
Levasseur, Louis	2830	973-2830		949-3917	Platt, Robert	2608	973-2608	580-2144	949-3935
Libby, Philip	3216	941-6668			Platt, Denise	2607	973-2607		745-2712
Linscott, Jeffrey	3732				Porter, Allen	2781			
Long, Cheryl	2739	941-6620			Preston, Dennis	2781			
Look, Robert	3807	255-4286	580-2698	461-8280	Rawcliffe, Carleton	2579	973-2579		
Lovering-Hollis, Sheri	2811	973-2811			Reeves, Jonathan	2713	973-2713		
Lozier, Andrew	2713	973-2713			Reeves, Dick	2886	973-2886		
Luther, Calvin	2833	973-2833		949-3971	Richards, Scott	3732	941-6606	580-2706	214-8823
Lyford, Kristi	2294	941-6637			Richardson, Scott	2656	973-2656		949-3970
Lyons, Neil	3216	941-6668			Robinson, Ray	2832	973-2832		478-3644
MacPheters, Jill	2416	990-6918			Ross, James	2624	973-2624	580-2707	
Mahan, Dale	2264	990-6927	580-2699	949-3973	Roy, Glenn	3234	941-6668		
Manning, Richard	2573	973-2573	580-2143	949-3930	Roy, Ronald	2249	941-6638		
Manning, Deborah	2533	973-2533			Rusnica, Richard	2809	973-2809		
Mansell, Dirk	3216	941-6668			Russell, Julie	2839	973-2839		949-3936
Martin, Lisa	2328	941-6635		356-2733	Russell, James	2382	941-6647		944-1075
Maynard, Mark	2406	947-2414			Sargent, Mark	2791			
McCarthy, Daniel	3214	941-6697	264-6719	949-3964	Sawyer, Daniel	3807			
McCurdy, Thomas	3807				Scott, Belva	2423	945-5621		
McDonald, Thomas	3742	667-3184			Scoville, Peter	3828			461-0344
McDougal, Michele	2604	973-2604		631-4230	Scully, Janet	2861	973-2861		341-0775
McLeod, Jack	2717	973-2717 973-2705	580-2702	852-1360	Searway, Nanette	2436	947-2414		
					Seavey, John	3723	667-3184		
Melvin, Scott	2592	973-2592			Severance, Stephen	2531	973-2531	580-2691	356-2041
Merrick, Karen	2442	947-2414			Sewall, Andrea	2411	945-5621		
Michaud, Stephen	3188				Shields, Alexander	3216	941-6668		
Miller, Kenneth	2524	973-2524	580-2688		Shifflett, Robert	2723	973-2723		
Mitchell, Jeffrey	2791				Shorey, Roxanne	2502	973-2502		
Monroe, Stephen	2713	973-2713	580-2730	356-0868	Sivik, Kenneth	2739	941-6620		
Monroe, Daniel	2713	973-2713			Smart, Earl	3732			
Monroe, Michael	2868	973-2868	580-2769	944-8222	Smart, Linda	2870	973-2870		
Moran, Timothy	3216	941-6668		949-3928	Smith, Gregory	3216			
Moriarty, Jesse	2864	973-2864			Smith, Bruce	2507	973-2507	821-2682	949-3968
Morin, Gayle	2262	990-6930			Smith, Stephen	2728	973-2728		
Moreault, Dave	2739	941-6620			Snowden, Beverly	2421	947-2414		
Morrill, Joseph	2791				Soltys, Alan	2503	973-2503		
Moulton, Leslee	2402	947-2414			Spear, Mona	2542	973-2542	580-2690	944-8230
Moyer, Crystal	3810	667-3184			Sprague, Patricia	2873	973-2873		
Nelson, Barbara	2468	945-5621			Sprague JR, Roy	3732			

Name	Ext.	Phone	Pager	Mobile	Name	Ext.	Phone	Pager	Mobile
Stanley, Gary	3729	941-6607	823-3491	461-0328					
Stuart, Stephen	3831	255-6727		461-0340					
Susee, Joseph	2717								
Sutherland, Brent	3217	941-6692		949-1570					
Thayer, David	2267	941-6690							
Thibodeau, Bernard	3215	990-6935							
Thomas, Mary	2431	990-6947							
Thompson, Philip	2728	973-2728							
Toole, Robert	2410	945-5621							
Tracy, Linda	2517	973-2517							
Trask, James	3130	794-8353							
Turcotte, Judith	2739	941-6620							
Veilleux, Barbara	2844	973-2844		356-2218					
Voisine, Michael	2791								
Vose, Donald	3807								
Vose, Deborah	2464	945-5621							
Wadleigh, Kimberly	2312	990-6905		356-5504					
Wallace, Gregg	3216	941-6668							
Ware, Sandra	2447	945-5621							
Warman, Margaret	2894	973-2894							
Wasson, Bruce	2781	973-2781	580-9002	949-3945					
Welch, Peter	3235								
Whalen, Michael	2292	990-6988							
White, Terry	2791								
Wilcox, Richard	2268	941-6690							
Willey, Barbara	2291	941-6639							
Williams, Jeffery	2791								
York, Kelly	2432	945-5621							

**ALL MEPCO SUBSTATIONS
SECONDARY CONTAINMENT INSPECTION FORM**

Inspected by: _____ Date of Inspection: _____
Substation: _____

A visual inspection of each piece of oil-containing equipment or oil container located at the substation (including those listed below) is made checking for the following: shell distortions and corrosion, signs of settlement, condition of foundations, condition of paint/coating, condition of appurtenances (accessories), and oil leaks or drips. Any deficiencies or comments are noted at the end of the form referencing the appropriate item number and serial numbers. All deficiencies should be corrected and a notation made and kept with the inspection forms indicating the date of correction.

	<u>Checked</u>	<u>Leak/Seep Requiring Immediate* Attention</u>	<u>Leak/Seep To Be Scheduled for Repair/Maintenance or Observation</u>
A. Transformers	_____	_____	_____
B. Regulators	_____	_____	_____
C. Breakers	_____	_____	_____
D. Miscellaneous Equipment	_____	_____	_____
E. Metering Pots	_____	_____	_____
F. Capacitors	_____	_____	_____

The following should also be inspected with any deficiencies or comments being noted at the end of the form referencing the appropriate item number. All deficiencies should be corrected and a notation made on the inspection form indicating the date of correction.

	<u>Yes</u>	<u>No</u>
E. Oil levels in larger pcs. of equipment checked	_____	_____
F. Facility lighting in substation is operational	_____	_____
G. Facility fencing in good condition	_____	_____
H. Containment retention area (if applicable) is not full of bushes, gravel, sand, etc., which would limit retainment capacity significantly.	_____	_____

Additional Comments/Deficiencies (Reference Item No. and Specific Serial Nos.):

*i.e., Leaks which affect the integrity of the equipment, leaks from equipment containing > 50 ppm or unknown PCB concentrations, leaks to soil. You must specify serial no. of leaking unit and describe the leak under "comments."

\\SPCC\\SUBSTAT\\GENERICMEPCO.DOC

ORRINGTON SUB WEEKLY INSPECTION

2-ED (Revised 12/13/00)

INSPECTED BY _____ DATE _____ AIR TEMP _____

115KV CIRCUIT BREAKERS

Sw. Nbr.	Odometer	Air Pressure	Compressor Hrs.	SF 6 Press.
KT1L				
K65-2				
K65/248				
K205-2				
K205/249				
246				
K247-1				
246/247				
K248-1				
K249-1				
KT2L				
KB1/Cap				

CIRCUIT SWITCHERS

Sw. Nbr.	Odometer	0 1 Target	L.A. Counter	0 2 Target	L.A. Counter	0 3 Target	L.A. Counter
KC1							
KC2							
KC3							
T1H							
T2H							

REACTORS

KR 1 Odometer _____ KR 2 Odometer _____

TRANSFORMER NO. 1

Tap Changer Odometer _____ Tap Changer Position _____
 Cyl. Ntgn. Pressure _____ Trans. Ntgn. Pressure _____
 Winding Temp. Phase 1 _____ Phase 2 _____ Phase 3 _____
 Oil Temp. _____ Oil Level _____ LTC Oil Level _____
 Fans Operated _____ Hydran Transmitter _____ ppm
*Do Not Operate Pumps In Manual On T1 Only.

345 KV LIGHTNING ARRESTORS

Leakage Odometer Phase 1 _____ Phase 2 _____ Phase 3 _____
 Leakage Current Phase 1 _____ Phase 2 _____ Phase 3 _____

TRANSFORMER NO. 2

Tap Changer Odometer _____ Tap Changer Position _____
Winding Temp. Phase 1 _____ Phase 2 _____ Phase 3 _____
Oil Temp. _____ Oil Level _____ LTC Oil Level _____
Gas Alarm Indicator _____ Fans Operated _____ Pumps Operated _____
Hydran Transmitter _____ ppm

345 KV SWITCH K-396-1

Oper. Air Press. Phase 1 _____ Phase 2 _____ Phase 3 _____
Gas Insul. Press. Phase 1 _____ Phase 2 _____ Phase 3 _____
Odometer Phase 1 _____ Phase 2 _____ Phase 3 _____
Storage Tank Press. _____ Compr. Hour Meter _____
Compressor Lube Oil Level _____

345 KV SWITCH KBS 3/4

LP Gas Temp. _____ HP Gas Temp. _____
LP Gas Press. _____ HP Gas Press. _____
Pneumatic Press. _____ Odometer _____
Air Compr. Hour Meter _____ Gas Compr. Hour Meter _____

345 KV SWITCH K396/388

Oper. Air Press. _____ SF 6 Gas Press. _____
Air Compr. Hour Meter _____
Odometer Phase 1 _____ Phase 2 _____ Phase 3 _____
Current Trans Oil Level Phase 1 _____ Phase 2 _____ Phase 3 _____

Batteries

No.	Water Level	Spec Gravity	Temp.	Volts	Chgr. Amps
1					
2					
3					
4					
5					

MISC. EQUIPMENT

SE Recorder Checklist _____ SPCC Checklist _____
Hydran Control Unit T1 _____ ppm T2 _____ ppm Alarms T1 _____ T2 _____
T1 WHD meter pt.34 _____ kwh pt.36 _____ kvar
T2 WHD meter pt.34 _____ kwh pt.36 _____ kvar

CAPACITOR BANK PC

DC Power _____ Run Mode _____ PC Good _____ Battery Good _____

SPCC

1. Any obvious equipment leaks or seeps observed requiring immediate attention? YES NO
2. Any obvious equipment leaks or seeps observed which need to be scheduled for repair or observation? YES NO
3. Do lighting and fencing appear adequate? YES NO
4. Do containment measures appear adequate? YES NO

REMARKS:

SVC INSPECTION/MAINTENANCE CHECKLIST

(Revised 12/13/00)

Inspected By: _____

Date: _____

CONTROL ROOM

1.1 Mimic Panel

- 1.11 _____ Lamp Test
- 1.12 _____ Lights indicate open or closed.

Energy Meters

- Mwh + _____ - _____
- Mvarh + _____ - _____

1.2 DAU + Printers

- 1.21 _____ Check Alarms
- 1.22 _____ Check Time
- 1.23 _____ Check Printers
- 1.24 _____ Check Paper
- 1.25 _____ Save Records

1.3 SER + Printer

- 1.31 _____ Check Monitor
- 1.32 _____ Check LED's
- 1.33 _____ Check Printer
- 1.34 _____ Check Paper
- 1.35 _____ Save Records

1.4 MCC Unit

Normal condition of the Motor Control Center (MMC).

- 1.1 _____ 43 Device in NORMAL.
- 1.2 _____ Tie Breaker OPEN.
- 1.3 _____ Breaker for source A CLOSED indicated by operating handle.
- 1.4 _____ Breaker for source B CLOSED.
- 1.5 _____ All Bus A Feeders CLOSED.
- 1.6 _____ All Bus B Feeders CLOSED.
- 1.7 _____ Power A light ON.
- 1.8 _____ Power B light ON.
- 1.9 _____ Approximately 480V on L1, L2 + L3 on A Voltmeter.
- 1.A _____ Approximately 480V on L1, L2 + L3 on B Voltmeter.
- 1.B _____ Fault Lights on Bus A, B and Tie NOT lit.
- 1.C _____ Two lamps lit on SVC KWH meter.

2.0 120/208 Panel

- 2.1 _____ 43 device in AUTO.
- 2.2 _____ L1-N, L2-N and L3-N approximately 120V.
- 2.3 _____ L1-L2, L2-L3 and L3-L1 approximately 208V.
- 2.4 _____ Feeder A ON light NOT LIT.
- 2.5 _____ Feeder B ON light LIT.
- 2.6 _____ Selector on Feeder B.
- 2.7 _____ Fault light A and B NOT LIT.
- 2.8 _____ Both Bus A and B breakers CLOSED.

3.0 DC Panels

3.1 125V DC Panel A

- 3.11 _____ Approx. 127V DC on Meter
 3.12 _____ Battery A ON.
 3.13 _____ Battery B OFF.

3.2 125V DC Panel B

- 3.21 _____ Approx. 127V DC on meter
 3.22 _____ Battery A OFF.
 3.23 _____ Battery B ON.

KWH Demand Meters
 A Side (control rm.) _____

1.5 Relay Cabinets - Annunciators

- 1.51 _____ Relay/Annunciator Target Report completed.

1.6 Varmaster Cabinet

- 1.61 _____ - Verify Computer "A" on - line (Yxx Card)
 1.62 _____ Verify Computer "B" is in standby (Yxx Card)
 1.63 _____ Indicating lights Normal
 1.64 _____ YPB102C Indicating light scrolling
 _____ SCC
 _____ VCC A
 _____ VCC B

1.7 Phones

- 1.71 _____ Check for dial tone

1.8 Fire Extinguishers

				Inspection Card	
#	Location	Type	Range / Normal	Monthly Check	
1.81	1 Control Rm	Halon System	0-700 / 380	_____	
1.82	2 Control Rm	Carbon Dioxide	0-400 / 200	_____	
1.83	3 Valve Hall	ABC Dry Chem	0-400 / 200	_____	
1.84	4 Valve Hall	ABC Dry Chem	0-400 / 200	_____	
1.85	5 Charger Rm	ABC Dry Chem	0-400 / 200	_____	
1.86	6 Microwave Rm	Carbon Dioxide	0-300 / 130	_____	
1.87	7 Store Rm Bldg	ABC Dry Chem	0-400 / 195	_____	

Alarm Center

Check for alarm conditions. Report and/or reset as necessary.

	NORMAL	CONDITION
2.1 Fire Alarm Panel	_____	_____
2.2 Security Alarm Panel	_____	_____
2.3 Halon System Panel	_____	_____
2.4 Halon System Batteries	_____	_____

Microwave Room

3.1 Compressor / Dehydrator

3.11 Check Line Pressure _____ PSI

3.12 Check Tank Pressure _____ PSI

3.2 Battery Charger

3.21 _____ DC Volts

3.22 _____ DC Amps

Valve Hall

4.1 Trigger Pulse Cabinets

_____ Check for Alarms

4.2 Cooling System Inspection

TCR BF1 Flow _____ TSC BF2 Flow _____ TSC BF3 Flow _____ TSC BF4 Flow _____

Flow BF10 _____ Conductivity BQ1 _____ BQ2 _____

C1 Level _____ BT1 Circ Tmp _____ Nitrogen Pressure _____ BP1 _____ BP2 _____

K1 & K2 Motors Cool and Fully Open or Closed _____

Motor On (o) M1 M2 Comments: _____

Oil Reserve Pump _____

Seal Pans _____

Bearing Temp (<80c) _____

Switched to _____

PLC A+B LED's (A) (B)

Normal _____

Test Lamps _____

Amber Lights _____

(ALARMS) _____

4.3 Valve Hall Vents

Operation

Thermostat Setting

4.21 _____ B1 _____ C

4.22 _____ A1 _____ C

4.23 _____ B2 _____ C

4.4 Valve Hall Louvres

4.31 _____ Operation _____ C Thermostat Setting

Battery Room

Vent Fans EF1 _____
EF2 _____

Ceiling Lights _____

5.1 Batteries

Bank A

Bank B

5.11 Specific Gravity

5.12 Cell Temperature

5.13 Electrolyte Level

5.2 Battery Chargers

5.21 Charger Voltage

5.22 Charger Current

5.3 U.P.S.

5.31 Inverter Output (v)

5.32 Inverter Output (Hz)

5.33 DC Output Current (A)

5.34 DC Output Voltage (V)

5.4 Inspect Eyewash Station

5.5 Rotate Battery Charger on Stock Room Battery Stock to Battery # _____

6.1 Substation Inspection

Counter
CB 51 _____

Counter
CB 61 _____

Transformer

Oil Temp

Oil Level

Winding Temp

Bushing Oil Level

TRF 4

TRF 1

TRF 2

TRF 3

KT1H

SF 6 PRESSURE COUNTER

01

02

03

CHECK CT, CVT & PT OIL LEVELS

CT.11 _____ CT.12 _____ CT.13 _____ CT.21 _____ CT.22 _____ CT.23 _____
PT.11 _____ PT.12 _____ PT.13 _____ CVT 1.1/1.2/1.3 _____ CVT 2.1/2.2/2.3 _____

CHECK HEATERS

T1H _____ KT1H _____ DS11 _____ DS21 _____ DS31 _____
DS41 _____ DS51 _____ CB51 _____ DS61 _____ CB61 _____

CAPACITOR BANK FUSES

	PHASE 1	PHASE 2	PHASE 3
TSC1	_____	_____	_____
TSC2	_____	_____	_____
TSC3	_____	_____	_____
FC1	_____	_____	_____
FC2	_____	_____	_____

GROUNDING TRANSFORMER

Oil Level _____
Bushings Oil Level _____
Temperature _____
Pressure _____

COMMENTS:

MONTHLY THERMAL SCAN _____
Attach capacitor sheet with hot spots indicated
List any stock needed to be ordered.

SPCC

- | | | |
|--|-----|----|
| 1. Any obvious equipment leaks or seeps observed requiring immediate attention? | YES | NO |
| 2. Any obvious equipment leaks or seeps observed which need to be scheduled for repair or observation? | YES | NO |
| 3. Do lighting and fencing appear adequate? | YES | NO |
| 4. Do containment measures appear adequate? | YES | NO |

**ORRINGTON SUBSTATION
SPCC INSPECTION FORM**

Inspected by: _____

Date of Inspection: _____

Reference Drawing: Site Plan SP-1

Perform a visual inspection of the substation using the Site Plan as a guide.

The objective of the SPCC provisions below is to contain any spill within the subterranean below the leaky equipment by capping the ends of all drain pipes through which oil might escape. Thoroughly inspect the areas identified below to determine if any of the SPCC provisions have been compromised to the point that a spill could not be contained.

1. Drain pipe discharges - one on west side of substation and six on east side of substation.

Inspection Procedure: Inspect all of the drain pipe discharges to make sure they are visible. Vegetation around the drain pipes should be cut back and the drain pipes should be marked.

Inspection Notes: _____

2. End caps or drain plugs.

Inspection Procedure: Inspect the spill locker within the Maintenance/Storage Building to verify the availability of four end caps or drain plugs for use in capping the drain pipe discharges in case of a spill within the substation.

Inspection Notes: _____

3. Containment pallet within Storage Building.

Inspection Procedure: Verify that all miscellaneous containers of oil and excess oil-containing equipment stored inside the Storage Building are located within containment.

Inspection Notes: _____

Additional Comments: _____

MEPCO SUBSTATIONS
SPILL SUPPLIES LOCKER
INVENTORY CHECKLIST

Location: _____

___ If seal on locker is still intact, no need to complete an inventory. Check here and sign and date below.

If seal on locker has been broken, an inventory must be completed. Replenish stock and record date of restocking below.

<u>Inventory Quantity</u>	<u>Quantity On Hand</u>	<u>Items</u>
2	_____	rolls of duct tape
1	_____	roll of caution tape
3	_____	bundles of absorbent pads (absorp. cap. – approx. 96 gals.)
40'	_____	oil absorbent boom (min. 5")(absorp. cap. – approx. 32 gals.)
1	_____	roll absorbent blanket (absorp. cap. – approx. 110 gals.)
1	_____	bags of Speedy Dri (absorp. cap. – approx. 5 gals.)
10 (min.)	_____	pair of nitrile gloves
10 (min.)	_____	polycoated tyvek suits
10 (min.)	_____	pair of latex overboots
1	_____	roll large 6 mil poly bags
1	_____	roll 6 mil poly sheeting
1	_____	push broom
1	_____	spade
1	_____	flat shovel
2	_____	pair splash goggles
1	_____	container "spillkleen" absorbent
<u>Orrington Sub. Only</u>		
4(min.)	_____	plugs or end caps for perforated drainage pipes

Completed by: _____ Date: _____ Restocking Date: _____

A copy of this inspection form must be kept in the back of the original MEPCO Substations SPCC Plan at GS.
Rev. 11/20/00

ATTACHMENT G
SPCC PLAN ANNUAL REVIEW SHEET
CHESTER SVC AND ORRINGTON SUBSTATIONS

It is time for the designated person accountable for oil spill prevention and qualified operators for MEPCO Substations to complete their annual review of the facility SPCC Plan. Please review the material contained in the SPCC Plan and sign and date below once completed. A copy of this form must be kept in the back of the SPCC Plan at your facility. These records must be kept for three years.

Name

Date
